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A Type Catalog of Fossil Invertebrates (Protista) in the Yale Peabody Museum

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Laura K. Skorina

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A Type Catalog of Fossil Invertebrates (Protista) in the Yale Peabody Museum

Russell D. White

Laura K. Skorina

(Received 17 April 2000)

Abstract

Type material for 378 nominal species of protists are in the Invertebrate Paleontology Collections of Yale University's Peabody Museum of Natural History. Primary types for 186 nominal species include 112 holotypes, 1057 syntypes (representing 70 nominal species) and 27 lectotypes. Secondary types for 126 nominal species include 537 paratypes (representing 40 nominal species) and 736 paralectotypes (representing 86 nominal species). Tertiary types of 269 nominal species include 1785 hypotypes. Most types are from Arizona, Bolivia, Coahuila (Mexico), Kansas, Nebraska, New Mexico, Oklahoma, and Texas, and have been described by C.O. Dunbar, C. A. Ross, F.F. Sabins, J.W. Skinner, M.L. Thompson and T.E. Williams.

Key Words

Type Catalog, Protista, Yale Peabody Museum, Arizona, Bolivia, Coahuila (Mexico), Kansas, Nebraska, New Mexico, Oklahoma, Texas, C.O. Dunbar, C. A. Ross, F.F. Sabins, J.W. Skinner, M.L. Thompson, and T.E. Williams.

Introduction

This catalog lists all known protist types in the Invertebrate Paleontology Collections housed in Yale University's Peabody Museum of Natural History. This is the fifteenth in a series of type catalogs of fossil invertebrates and is a product of an ongoing computerization project to improve the accessibility of the type collections.

Thirty-four type specimens are missing and cannot be located. The collections have been thoroughly searched by the curatorial staff in the 1960s and 1990s and it is believed that these specimens are permanently lost. Missing specimens are indicated with a footnote, and any information on their whereabouts would be greatly appreciated.

Organization

Specimens are listed under the originally described binomen; genera and species

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within genera are indexed alphabetically. Each entry includes the catalog number used by the Division of Invertebrate Paleontology prefixed with the abbreviation YPM and the type status of the original designation, followed by all known references to that name. Any subsequent designations are listed under the original designation and are cross-referenced in the body of the text. Locality descriptions follow each entry or set of entries for each binomen. Errors and inconsistencies are footnoted at the bottom of each binomen.

The type designations used are holotype, syntype and lectotype for name bearers; paratype and paralectotype for secondary types; hypotype is used for all tertiary types. Name bearers and secondary types are defined as used in the International Code of Zoological Nomenclature (ICZN 1985). Tertiary types or hypotypes are treated here as any specimens used in an original species description but not explicitly designated primary or secondary types, any described, figured or measured specimen used in a publication to augment the knowledge of a previously defined species, or any referenced specimen that cannot be placed unequivocally in a known species (e.g., Schwagerina sp.).

Locality descriptions follow each entry or set of entries with identical locality data. The locality information includes the stratigraphy, geography, collector and date. Stratigraphy has been standardized using Stratigraphic Nomenclature Databases for the United States, its Possessions and Territories (MacLachlan et al. 1992).

Catalog of Protista

Alveolophragmium linki (Nauss)

HYPOTYPE YPM 20401

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.10.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 51-64 ft above base of unit 25, section 22, offset 2 mi NW to 22T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20402

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.9.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20403

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.11.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 64-76 ft above base of unit 25, section 22, offset 2 mi NW to 22T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

Ammobaculites euides Loeblich and Tappan

HYPOTYPE YPM 20404

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.61, pl.3, f.17.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 68-78 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20405

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.61, pl.3, f.18.

Early Cretaceous, Skull Creek Shale. At 0-6 ft above base of unit 7, section 37, roadcut NW of New Haven, NW sec11T55NR67W, Crook Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20406

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.61, pl.3, f.19.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 51-64 ft above base of unit 25, section 22, offset 2 mi NW to 22T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculites fragmentarius* Cushman**

HYPOTYPE YPM 20407

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.61, pl.4, f.11.

Early Cretaceous, Skull Creek Shale. At 3-7 ft above base of unit 3, section 37, roadcut NW of New Haven, NW sec11T55NR67W, Crook Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculites obliquus* Loeblich and Tappan**

HYPOTYPE YPM 20408

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.62, pl.4, f.4.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 68-78 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20409

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.62, pl.4, f.5a,5b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculites petilus* Eicher**

HOLOTYPE YPM 20410

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.62, pl.4, f.2a,2b.

PARATYPE YPM 20411

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.62, pl.4, f.6.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 88-99 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculites subcretaceus* Cushman and Alexander**

HYPOTYPE YPM 20412

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.63, pl.4, f.3a,3b.

Early Cretaceous, Skull Creek Shale. Unit 2, 6.7 ft, section 37, roadcut NW of New Haven, NW sec11T55NR67W, Crook Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculites tyrrelli* Nauss**

HYPOTYPE YPM 20413

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.64, pl.4, f.1a,1b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 99-112 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Ammobaculoides phaulus* Loeblich and Tappan**

HYPOTYPE YPM 20414

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.64, pl.4, f.7a,7b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 72-86 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20415

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.64, pl.4, f.8.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 88-99 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20416

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.64, pl.4, f.9.

Early Cretaceous, Thermopolis Shale. Unit 6, 8.2 ft, section 30, 1 mi N of Iron Mountain, SE sec 3 T18 NR70W, Laramie Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20417

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.64, pl.4, f.10.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 1-15 ft below Muddy Sandstone, section 3, S of Owl Creek, SW sec14T43NR95W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

Ammobaculoides whitneyi **(Cushman and Alexander)**

HYPOTYPE YPM 20418

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.65, pl.4, f.12a,12b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 1-15 ft below MuddyÃSandstone, section 3, S of Owl Creek, SW sec14T43NR95W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20419

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.65, pl.4, f.13.

HYPOTYPE YPM 20420

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.65, pl.4, f.14.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 72-86 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

Ammomarginulina cragini **Loeblich and Tappan**

HYPOTYPE YPM 20421

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.60, pl.3, f.20.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 68-78 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

Bartramella paradisensis **Ross and Sabins**

HOLOTYPE YPM 22358

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, tbl.3, tf.4, pl.23, f.32.

PARATYPE YPM 22355

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.29.

PARATYPE YPM 22356

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.30.

PARATYPE YPM 22357

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.31.

PARATYPE YPM 22359

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.33.

PARATYPE YPM 23433

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.21, f.33.

Pennsylvanian, Horquilla Limestone. Float, 690 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

Beedeina apachensis **(Ross and Sabins)**

HYPOTYPE YPM 26638

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.36.

HYPOTYPE YPM 26639

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.37,38.

HYPOTYPE YPM 26640

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.39.

HYPOTYPE YPM 26641

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.40.

Late Pennsylvanian, Horquilla Limestone. At 264 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26642

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.41.

Late Pennsylvanian, Horquilla Limestone. At 295 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26643

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.1,2.

HYPOTYPE YPM 26644

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.4.

HYPOTYPE YPM 26645

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.3.

Late Pennsylvanian, Horquilla Limestone. At 264 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26646

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.5.

HYPOTYPE YPM 26647

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.6.

HYPOTYPE YPM 26648

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.173, f.7.

Late Pennsylvanian, Horquilla Limestone. At 295 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

Beedeina arizonensis **(Ross and Sabins)**

HYPOTYPE YPM 26568

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.170, f.7, pl.171, f.29.

HYPOTYPE YPM 26569

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.23,25.[a]

HYPOTYPE YPM 26570

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.26,27.

HYPOTYPE YPM 26571

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.28.

HYPOTYPE YPM 26572

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.31.

HYPOTYPE YPM 26573

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.24.

HYPOTYPE YPM 26574

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.30.

Late Pennsylvanian, Horquilla Limestone. At 26 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

[a]Incorrectly cited as YPM 26596.

Beedeina casperensis **(Thompson and Thomas)**

HYPOTYPE YPM 26619

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.1,2.

HYPOTYPE YPM 26620

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.3,4.

HYPOTYPE YPM 26621

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.5,6.

HYPOTYPE YPM 26622

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.8,9.

HYPOTYPE YPM 26623

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.10.[a]

HYPOTYPE YPM 26624

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.7.

HYPOTYPE YPM 26709

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.172, f.11.[b]

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

[a]Not pl.172, f.11.

[b]Incorrectly cited as YPM 26623.

***Beedeina euryteines* (Thompson)**

HYPOTYPE YPM 26658

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.8.

HYPOTYPE YPM 26659

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.11.

HYPOTYPE YPM 26660

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.9.

HYPOTYPE YPM 26661

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.10.

HYPOTYPE YPM 26662

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.12.

Late Pennsylvanian, Horquilla Limestone. At 322 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Beedeina hayensis* (Ross and Sabins)**

HYPOTYPE YPM 26603

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.11.

HYPOTYPE YPM 26604

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.12.

HYPOTYPE YPM 26605

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.13,14.

HYPOTYPE YPM 26606

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.16.

HYPOTYPE YPM 26607

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.15.

Late Pennsylvanian, Horquilla Limestone. At 11 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 9/3/1966.

HYPOTYPE YPM 26608

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.17,18.

HYPOTYPE YPM 26609

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.19.

HYPOTYPE YPM 26610

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.21.

HYPOTYPE YPM 26611

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.20.

HYPOTYPE YPM 26612

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1415, pl.171, f.22.

Late Pennsylvanian, Horquilla Limestone. At 15 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Beedeina leei* (Skinner)**

HYPOTYPE YPM 26625

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.19,20.

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26626

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.21.

HYPOTYPE YPM 26627

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.22,23.

HYPOTYPE YPM 26628

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.24.

HYPOTYPE YPM 26629

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416,

pl.172, f.25.

HYPOTYPE YPM 26630

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.26.

HYPOTYPE YPM 26631

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.28.

HYPOTYPE YPM 26632

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.27.

Late Pennsylvanian, Horquilla Limestone. At 221 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Beedeina leei*(?) (Skinner)**

HYPOTYPE YPM 26633

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.12.

HYPOTYPE YPM 26634

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.13.

HYPOTYPE YPM 26635

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.14.

HYPOTYPE YPM 26636

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.15.

Late Pennsylvanian, Horquilla Limestone. At 192 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26637

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.35.

Late Pennsylvanian, Horquilla Limestone. At 264 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Beedeina rockymontana* (Roth and Skinner)**

HYPOTYPE YPM 26563

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.170, f.1-3.

HYPOTYPE YPM 26564

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.170, f.4-6.

HYPOTYPE YPM 26565

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.16.

HYPOTYPE YPM 26566

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.17.

HYPOTYPE YPM 26567

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1416, pl.172, f.18.

Late Pennsylvanian, Horquilla Limestone. At 104 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Beedeina* cf. *B. weintzi* (Verville, Thompson and Lokke)**

HYPOTYPE YPM 26663

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.14.

HYPOTYPE YPM 26664

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.15.

HYPOTYPE YPM 26665

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.16.

Late Pennsylvanian, Horquilla Limestone. At 491 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

***Bimonilina variana* Eicher**

HOLOTYPE YPM 20422

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.4, f.17a-17c.

PARATYPE YPM 20423

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.4, f.15.

PARATYPE YPM 20424

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.4, f.16.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 72-86 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

PARATYPE YPM 20425

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.4, f.18.

PARATYPE YPM 20426

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.4, f.19.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Cancellina* cf. *C. primigenia* Hayden**

HYPOTYPE YPM 26342

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.105, pl.1, f.15.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Cancellina schellwieni* Deprat**

HYPOTYPE YPM 26340

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.105, pl.1, f.12.

HYPOTYPE YPM 26341A

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.13.

HYPOTYPE YPM 26341B

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.14.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Clathrocyclas* (*Clathrocyclas*) *irrasa* Eicher**

HOLOTYPE YPM 20467

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.75, pl.6, f.8.

PARATYPE YPM 20468

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.75, pl.6, f.9.

PARATYPE YPM 20469

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.75, pl.6, f.10.

Early Devonian, Linden Grp, Birdsong Shale. Base of Birdsong, Conrad place on Big Lick Creek, 2.5 mi NE of Jeanette, slope in front of Conrad's house, Decatur Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Doliolina lepida* (Schwager)**
See *Misellina lepida* (Schwager).

***Dunbarinella ervinensis* Thompson**

SYNTYPE YPM 17062A

Thompson, M.L. 1942. Am. J. Sci. v.240, p.419.

Late Pennsylvanian, Deer Creek Limestone, Ervine Creek Mbr. N bank of the roadcut of Hwy 11, about 3.7 mi W of the river bridge at Pawhuska, SE sec2T25NR8E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

SYNTYPE YPM 17062B

Thompson, M.L. 1942. Am. J. Sci. v.240, p.419.

Late Pennsylvanian, Deer Creek Limestone, Ervine Creek Mbr. Quarry on the S side of Hwy 11, NE sec11T26NR8E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

***Dunbarinella* cf. *D. ervinensis* Thompson**

HYPOTYPE YPM 21261

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.145, tbl.(p.145), pl.6, f.2.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Dunbarinella* sp. A**

HYPOTYPE YPM 23526

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.2, tf.5(1, bed 1-21, 1-22), pl.77, f.24.

HYPOTYPE YPM 23527

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.2, pl.77, f.25.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Eggerella* sp.**

HYPOTYPE YPM 20427

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.70, pl.5, f.5.

Early Cretaceous, Shell Creek Shale. At 14-24 ft above base of unit 14, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 50058

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.70.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 0.3 ft above bentonite, 10 ft below Muddy, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Eoparafusulina allisonensis* Ross**

HOLOTYPE YPM 23600

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.1,2.

PARATYPE YPM 23601

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.3.

PARATYPE YPM 23605A

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.5.

PARATYPE YPM 23605B

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.8.

PARATYPE YPM 23606

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.9.

PARATYPE YPM 23607A

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.4.

PARATYPE YPM 23607B

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.6,10.

PARATYPE YPM 23607C

Ross, C.A. 1967. J. Paleont. v.41, n.4, p.945, pl.124, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. In 2-ft-thick calcareous ferruginous quartz sandstone, upper Neal Ranch, section 41, on flank of a small syncline, exposed in a creek gully 300 ft S57E from where US Rt 385 passes through highest massive limestone bed of the Gaptank Fm at Gaptank, Pecos Co., Texas, USA. Collector: Ross, C.A., 1957.

***Eoschubertella bluensis* Ross and Sabins**

HOLOTYPE YPM 23432

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tbl.3, tf.4, pl.21, f.29.

Pennsylvanian, Horquilla Limestone. At 102 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22057B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tbl.4, pl.21, f.28.

Pennsylvanian, Horquilla Limestone. At 127 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Eoschubertella mexicana* (?) Thompson**

HYPOTYPE YPM 26596

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1408, pl.170, f.16.

HYPOTYPE YPM 26597

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1408, pl.170, f.17.

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Eoschubertella* sp.**

HYPOTYPE YPM 23449

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.623, pl.75, f.15.

Pennsylvanian, Horquilla Limestone. At 150 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Eostaffella* spp.**

HYPOTYPE YPM 26592

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1410, pl.170, f.12.

Late Pennsylvanian, Horquilla Limestone. At 221 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26593

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1410, pl.170, f.13.

HYPOTYPE YPM 26594

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1410, pl.170, f.14.

HYPOTYPE YPM 26595

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1410, pl.170, f.15.

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Eoverbeekina* ? aff. *E. americana* Thompson and Miller**

HYPOTYPE YPM 21244

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.132), pl.21, f.9,12.

HYPOTYPE YPM 21245

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.132), pl.21, f.8.

HYPOTYPE YPM 21246[a]

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.132).

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 55 (2 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Fusiella primaeva* Skinner**

HYPOTYPE YPM 26354

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.43, f.7.

Early Pennsylvanian, Marble Falls Limestone. At 4.7 mi S of courthouse in Brady, on Brady-Mason Road, McCulloch Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

***Fusulina apachensis* Ross and Sabins**

HOLOTYPE YPM 23389

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tbl.10, tf.4(1, bed 16), pl.28, f.9.

PARATYPE YPM 23388

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tbl.10, pl.28, f.8.

PARATYPE YPM 23390

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, pl.28, f.10.

Pennsylvanian, Horquilla Limestone. At 380 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulina arizonensis* Ross and Sabins**

HOLOTYPE YPM 22326

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.8, tf.4, pl.27, f.20.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountaint, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22323A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.21, f.34, pl.27, f.17.

Pennsylvanian, Horquilla Limestone. At 433 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22324

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.8, pl.27, f.18.

PARATYPE YPM 22325

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.8, pl.27, f.19.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22327

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.27, f.21.

Pennsylvanian, Horquilla Limestone. At 433 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22329

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.27, f.23.

Pennsylvanian, Horquilla Limestone. At 102 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22346

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.27, f.22.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23451

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, tf.5(1, bed 1-4), pl.75, f.20.

HYPOTYPE YPM 23452

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.75, f.21.

HYPOTYPE YPM 23453

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.75, f.22.

HYPOTYPE YPM 23454

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.75, f.23.

Pennsylvanian, Horquilla Limestone. At 135 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 23455

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, tf.5(2, bed 2-1b), pl.75, f.24.

HYPOTYPE YPM 23456

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.75, f.25.

Pennsylvanian, Horquilla Limestone. At 175 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 23457
Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, tf.5(2, bed 2-1d), pl.75, f.29.

HYPOTYPE YPM 23458

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.75, f.30.

Pennsylvanian, Horquilla Limestone. At 200 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulina attenuata* Alexander**

HYPOTYPE YPM 20526

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, tbl.(p.94), pl.3, f.1.

HYPOTYPE YPM 20527

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, pl.3, f.2.

HYPOTYPE YPM 20528

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, tbl.(p.94), pl.3, f.3.

HYPOTYPE YPM 20529

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, tbl.(p.94), pl.3, f.4.

HYPOTYPE YPM 20530

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, tbl.(p.94), pl.3, f.5.

HYPOTYPE YPM 20531

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.94, pl.3, f.6.

Pennsylvanian, Desmoinesian, Gaptank Fm. Upper limestone and shale along old roadcut, 1.3 mi SW of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Fusulina berryi* Berry**

SYNTYPE YPM 21279

Berry, W. 1933. Pan-Am. Geol. v.59, p.270, pl.22, f.10.[a]

=*Schwagerina prolongada* (Berry). PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457,477.

SYNTYPE YPM 24369
Berry, W. 1933. Pan-Am. Geol. v.59, p.270, pl.22, f.6.[a]

=*Triticites berryi.* LECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, tbl.(p.476,#1), pl.8, f.7.

SYNTYPE YPM 26345

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, pl.8, f.5.

SYNTYPE YPM 26346

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, tbl.(p.476,#2), pl.8, f.4.

SYNTYPE YPM 26347

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, tbl.(p.476,#6), pl.8, f.9.

SYNTYPE YPM 28460

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476.

SYNTYPE YPM 30396

Berry, W. 1933. Pan-Am. Geol. v.59, p.270, pl.22, f.7.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476.

SYNTYPE YPM 30398

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and

N.D. Newell. 1946. Am. J. Sci. v.244, p.476, pl.8, f.6.

SYNTYPE YPM 30399

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476.

SYNTYPE YPM 30400

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, tbl.(p.476,#5), pl.8, f.10.

SYNTYPE YPM 30802[b]

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, pl.8, f.1.

SYNTYPE YPM 30803[b]

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, pl.8, f.2.

SYNTYPE YPM 30804[b]

Berry, W. 1933. Pan-Am. Geol. v.59, p.270.[a]

=*Triticites berryi.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.476, pl.8, f.3.

Permian. Chulpapampa, Bolivia. Collector: Berry, E. W. and Singewald, J.T., 1919.

[a]Incorrectly cited as *Fusulina berryi* Jones.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

Fusulina bowiensis Ross and Sabins

HOLOTYPE YPM 23400

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tbl.8, tf.4, pl.28, f.21.

Pennsylvanian, Horquilla Limestone. At 650 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 23399

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tbl.8, tf.4, pl.28, f.20.

Pennsylvanian, Horquilla Limestone. At 356 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 23401

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, pl.28, f.22.

PARATYPE YPM 23402

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, pl.28, f.23.

Pennsylvanian, Horquilla Limestone. At 650 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 23403

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, pl.28, f.24.

PARATYPE YPM 23404

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tf.4, pl.28, f.25.

PARATYPE YPM 23405

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, tbl.8, pl.28, f.26.

PARATYPE YPM 23406

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.194, pl.28, f.27.

Pennsylvanian, Horquilla Limestone. About 825 ft (estimated) above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

Fusulina casperensis Thompson and Thomas

HYPOTYPE YPM 23469

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.76, f.7.

Pennsylvanian, Horquilla Limestone. At 295 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 23470

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, tf.5(2, bed 2-5f), pl.76, f.33.

HYPOTYPE YPM 23471

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.626, pl.76, f.34.

Pennsylvanian, Horquilla Limestone. At 470 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulina cedarensis* Ross and Sabins**

HOLOTYPE YPM 22331

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.10, pl.27, f.25.

PARATYPE YPM 22330

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.10, pl.27, f.24.

PARATYPE YPM 22332

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.27, f.26.

Pennsylvanian, Horquilla Limestone. At 240 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulina cylindrica* Fischer**

HYPOTYPE YPM 26230

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.562, pl.43, f.6.

The white limestone at Mjatschkowa, near Moscow, Russia.

***Fusulina elongata* Shumard**

HYPOTYPE YPM 25264

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.54, pl.12, f.4.

=*Parafusulina wordensis* Dunbar and Skinner. SYNTYPE. Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261, pl.2, f.2.[a]

=*Parafusulina wordensis* Dunbar and Skinner. SYNTYPE. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.3.[a]

=*Parafusulina wordensis* Dunbar and Skinner. PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54, pl.14, f.6.[b]

Permian, Word Fm. Third limestone, section 17, top of hill S of junction of Road and Gilliland Canyons, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

[a]Cited as YPM 9922.

[b]Cited as paratype.

***Fusulina emaciata* Beede**

HYPOTYPE YPM 11058A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.116, pl.10, f.2.

=*Schwagerina emaciata*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.10.

HYPOTYPE YPM 11058B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.116, pl.10, f.3.

=*Schwagerina emaciata*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.5.

HYPOTYPE YPM 11058C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.116, pl.10, f.1.

Early Permian, Cottonwood Limestone. Cottonwood Limestone, Eis Hill, 6.5 miles S of Humboldt, NE sec3T1NR13E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.

***Fusulina eximia* Thompson**

SYNTYPE YPM 14687

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.323.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.123.

SYNTYPE YPM 14687A

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.323.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.123, pl.17, f.6.[b]

Middle Pennsylvanian, Desmoinesian. SE sec26T69NR18W, Appanoose Co., Iowa, USA. Collector: Thompson, M.L.

[a]Cited with a State University of Iowa catalog number, but the specimen has since been donated to the Yale Peabody Museum.

[b]Cited as cotype [syntype] on pl.17, f.6, although a holotype [lectotype] is designated on p.123.

***Fusulina girtyi* (Dunbar and Condra)**

HYPOTYPE YPM 15248A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, pl.11, f.1,2.

HYPOTYPE YPM 15248B

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, pl.11, f.1,3.

HYPOTYPE YPM 15248C

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, pl.11, f.1,4.

HYPOTYPE YPM 15248D

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, pl.11, f.1,5.

HYPOTYPE YPM 15248E

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, pl.11, f.1,6.

Middle Pennsylvanian, Carbondale Fm, Brereton Limestone Mbr. Peoria Co., Illinois, USA. Collector: Braun, F.A.

See also *Fusulinella girtyi* Dunbar and Condra

***Fusulina haworthi* (Beede)**

HYPOTYPE YPM 23355

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, pl.25, f.1.

HYPOTYPE YPM 23356

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.2.

HYPOTYPE YPM 23357

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, pl.25, f.3.

HYPOTYPE YPM 23358

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, tf.4(8, bed 26), pl.25, f.4.

HYPOTYPE YPM 23359

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.5.

HYPOTYPE YPM 23360

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.6.

HYPOTYPE YPM 23361

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.7.

HYPOTYPE YPM 23362

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.8.

Pennsylvanian, Horquilla Limestone. About 850 ft (estimated) above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulina haworthi?* (Beede)**

HYPOTYPE YPM 23363

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.9.

HYPOTYPE YPM 23364

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.25, f.10.

Pennsylvanian, Horquilla Limestone. At 500 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

***Fusulina hayensis* Ross and Sabins**

HOLOTYPE YPM 22317

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.8, pl.27, f.11.

PARATYPE YPM 22315

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.27, f.9.

Pennsylvanian, Horquilla Limestone. At 481 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22316

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.8, tf.4, pl.27, f.10.

Pennsylvanian, Horquilla Limestone. At 485 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22318

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.8, pl.27, f.12.

Pennsylvanian, Horquilla Limestone. At 481 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains., W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22319

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.27, f.13.

PARATYPE YPM 22320

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.27, f.14.

PARATYPE YPM 22321

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.27, f.15.

Pennsylvanian, Horquilla Limestone. At 485 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22322

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.27, f.16.

Pennsylvanian, Horquilla Limestone. At 481 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulina knighti* Dunbar and Henbest**

HOLOTYPE YPM 14427K

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#2), pl.6, f.18.

PARATYPE YPM 14427A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (upper right).

PARATYPE YPM 14427B

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (upper center).

PARATYPE YPM 14427C

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (upper left).

PARATYPE YPM 14427D

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (middle right).

PARATYPE YPM 14427E

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (middle left).

PARATYPE YPM 14427F

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (lower right).

PARATYPE YPM 14427G

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, pl.6, f.14 (lower center).

PARATYPE YPM 14427H

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#3), pl.6, f.16.

PARATYPE YPM 14427I

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112.

PARATYPE YPM 14427J

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#1), pl.6, f.17.

PARATYPE YPM 14427L

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112.

PARATYPE YPM 14427M

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#5), pl.6, f.19.

PARATYPE YPM 14427N

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#4), pl.6, f.20.

PARATYPE YPM 14427P

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tbl.(p.112,#6), pl.6, f.21.

PARATYPE YPM 14427Q, 14427S, 14427T

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112.

HYPOTYPE YPM 14427R

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.112, tf.3.

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Zone 9, lower Fort Scott, 0.5 mi N of Olive St, road at juncture with Spoede Road in St. Louis, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Fusulina leei* Skinner**

PARATYPE? YPM 20926, 20927, 20936, 20937

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[a]

PARATYPE? YPM 20926A

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (center right).[b]

PARATYPE? YPM 20926B

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (upper right).[b]

PARATYPE? YPM 20926C

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (center left).[b]

PARATYPE? YPM 20926D

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (upper left).[b]

PARATYPE? YPM 50041[c]

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (lower left).[b]

PARATYPE? YPM 50042[c]

Skinner, J.W. 1931. J. Paleont. v.5, n.3, p.257.[b]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.109, pl.5, f.1 (lower right).[b]

Middle Pennsylvanian. Marl just above the Bluejacket Sandstone in the Cherokee Shale, E of Claremore, sec7T21NR18E, Rogers Co., Oklahoma, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 23478

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.13.

HYPOTYPE YPM 23479

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.14.

HYPOTYPE YPM 23480

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.15.

Pennsylvanian, Horquilla Limestone. At 260 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

[a]Specimens are marked as a cotypes [paratypes], but not cited in the original description.

[b]Specimen is cited by Dunbar and Henbest (1942), on pl.5, f.1, as a paratype, although it was not cited in the original description.

[c]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Fusulina llanoensis* Thomas**

SYNTYPE? YPM 15274

Thomas, N.L. 1931. Tex. Univ. Bull. n.3101, p.31.[a]

=*Fusulinella llanoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.543, pl.43, f.1.[a]

=*Fusulinella llanoensis.* Dunbar, C.O. 1940. Foraminifera, pl.44, f.19.

=*Fusulinella llanoensis.* Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.38,42, pl.1, f.1.

=*Fusulinella llanoensis.* Dunbar, C.O. 1948. Foraminifera, pl.44, f.19.

Pennsylvanian, Bend Grp. Llano River bluff at mouth of Big Saline Creek, Mason Co., Texas, USA.

[a]YPM 15274 is cited by Dunbar and Skinner (1937), on pl.43, f.1, as a cotype [syntype], although it was not cited in the original description.

***Fusulina longissimoidea* Beede**

HYPOTYPE YPM 11094A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.114, pl.10, f.4.

HYPOTYPE YPM 11094B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.114, pl.10, f.6.

HYPOTYPE YPM 11094C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.114, pl.10, f.7.

Late Pennsylvanian, Elmdale Fm. Elmdale Shale, Grand Summit, Cowley Co., Kansas, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 24355

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.114, pl.10, f.9.

Late Pennsylvanian, Elmdale Fm. Elmdale Shale, Grand Summit, Cowley Co., Kansas, USA. Collector: Twenhofel, W.H.

***Fusulina lucasensis* Thompson**

SYNTYPE YPM 14684A

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.309.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.103, pl.4, f.29.

SYNTYPE YPM 14684B

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.309.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.103, pl.4, f.30.

Middle Pennsylvanian, Desmoinesian. NE sec16T72NR22W, Lucas Co., Iowa, USA. Collector: Thompson, M.L.

[a]Published with a State University of Iowa catalog number, but the specimen has since been donated to the Yale Peabody Museum.

***Fusulina megista* Thompson**

SYNTYPE YPM 14683A

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.320.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.126, pl.17, f.18.

SYNTYPE YPM 14683B

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.320, pl.23, f.4.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.126, pl.17, f.19.

Middle Pennsylvanian, Desmoinesian. Mystic, Appanoose Co., Iowa, USA. Collector: Thompson, M.L.

SYNTYPE YPM 14685

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.320, pl.23, f.6.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.126, pl.17, f.17.

SYNTYPE YPM 14700

Thompson, M.L. 1934. Iowa Univ. Stud. Nat.

Hist. v.16, n.4, p.320, pl.23, f.5.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.126, tbl.(p.127,#5), pl.17, f.20.

Middle Pennsylvanian, Desmoinesian. At 1.5 mi W of Sunshine, Appanoose Co., Iowa, USA. Collector: Thompson, M.L.

HYPOTYPE YPM 20532

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, tbl.(p.96), pl.3, f.7.

HYPOTYPE YPM 20533

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, pl.3, f.8.

HYPOTYPE YPM 20534

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, tbl.(p.96), pl.3, f.9.

HYPOTYPE YPM 20535

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, tbl.(p.96), pl.3, f.10.

HYPOTYPE YPM 20536

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, pl.3, f.11.

HYPOTYPE YPM 20537

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.95, tbl.(p.96), pl.3, f.12.

Pennsylvanian, Gaptank Fm. Unit 4 (4 ft thick), section 12, knoll at the base of SW face of Leonard Mountain, and SSW of BM 5860, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a]Published with a State University of Iowa catalog number, but the specimen has since been donated to the Yale Peabody Museum.

***Fusulina mescalensis* Ross and Tyrrell**

HOLOTYPE YPM 23489

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tbl.2, pl.76, f.27.

PARATYPE YPM 23488

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.25.

PARATYPE YPM 23490

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tbl.2, tf.5(1, bed 1-7), pl.76, f.28.

PARATYPE YPM 23491

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.29.

PARATYPE YPM 23492

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.26.

Pennsylvanian, Horquilla Limestone. At 205 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23493

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tbl.2, tf.5(2, bed 2-3d), pl.76, f.30.

PARATYPE YPM 23494

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.31.

PARATYPE YPM 23495

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.32.

Pennsylvanian, Horquilla Limestone. At 283 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulina mescalensis*? Ross and Tyrrell**

HYPOTYPE YPM 23496

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tf.5(1, bed 1-5), pl.76, f.35.

HYPOTYPE YPM 23497

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.76, f.36.

Pennsylvanian, Horquilla Limestone. At 150 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Fusulina mysticensis* Thompson**

SYNTYPE YPM 14682

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.319.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.127.

SYNTYPE YPM 14682A

Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.319.[a]

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.127, pl.18, f.2.

Middle Pennsylvanian, Desmoinesian. At 3.25 mi E of Cincinnati, Appanoose Co., Iowa, USA. Collector: Thompson, M.L.

[a]Published with a State University of Iowa catalog number, but the specimen has since been donated to the Yale Peabody Museum.

***Fusulina novamexicana* Needham**

HYPOTYPE YPM 23395

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.191, tbl.8, tf.4, pl.28, f.16.

Pennsylvanian, Horquilla Limestone. At 500 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23396

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.191, pl.28, f.17.

HYPOTYPE YPM 23397

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.191, tbl.8, pl.28, f.18.

HYPOTYPE YPM 23398

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.191, tbl.8, tf.4, pl.28, f.19.

Pennsylvanian, Horquilla Limestone. About 860 ft (estimated) above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulina novamexicana*? Needham**

HYPOTYPE YPM 23475

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.11.

HYPOTYPE YPM 23476

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(2, bed 2-4c), pl.76, f.12.

Pennsylvanian, Horquilla Limestone. At 325 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 23477

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(2, bed 2-4f), pl.76, f.16.

Pennsylvanian, Horquilla Limestone. At 355 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulina pattoni* Needham**

HYPOTYPE YPM 23436

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.3.

HYPOTYPE YPM 23437

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.4.

HYPOTYPE YPM 23438

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tf.5(2, bed 2-4a), pl.75, f.5.

Pennsylvanian, Horquilla Limestone. At 305 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulina peruana* (Meyer)**

HYPOTYPE YPM 21277

Berry, W. 1933. Pan-Am. Geol. v.59, p.269, pl.22, f.8,9.

=*Triticites patulus* Dunbar and Newell. PARATYPE.

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, pl.10, f.2.

HYPOTYPE YPM 24373

Berry, W. 1933. Pan-Am. Geol. v.59, p.269, pl.22, f.3.

HYPOTYPE YPM 24374

Berry, W. 1933. Pan-Am. Geol. v.59, p.269, pl.22, f.4.

HYPOTYPE YPM 30397

Berry, W. 1933. Pan-Am. Geol. v.59, p.269, pl.22, f.12.

HYPOTYPE YPM 30801[a]

Berry, W. 1933. Pan-Am. Geol. v.59, p.269.

=*Triticites patulus* Dunbar and Newell. PARATYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, pl.10, f.1.

Permian. Chulpapampa, Bolivia. Collector: Berry, E.W. and Singewald, J.T., 1919.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Fusulina portalensis* Ross and Sabins**

HOLOTYPE YPM 23367

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.9, tf.4, pl.25, f.13.

PARATYPE YPM 23365

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.25, f.11.

Pennsylvanian, Horquilla Limestone. At 250 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 23366

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tf.4(9, bed 9), pl.25, f.12.[a]

Pennsylvanian, Horquilla Limestone. At 240 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 23368

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.25, f.14.

Pennsylvanian, Horquilla Limestone. At 250 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 23369

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, pl.21, f.31, pl.25, f.15.[b]

Pennsylvanian, Horquilla Limestone. At 240 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 23370

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.9, pl.25, f.16.

PARATYPE YPM 23371

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.193, tbl.9, pl.25, f.17.

Pennsylvanian, Horquilla Limestone. At 250 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

[a]Incorrectly cited as YPM 23369.

[b]Not pl.21, f.12; omitted from description of pl.25.

***Fusulina pristina* Thompson**

HYPOTYPE YPM 23391A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, tf.4(9, bed 17), pl.28, f.11.

HYPOTYPE YPM 23391B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, pl.28, f.13.

Pennsylvanian, Horquilla Limestone. At 420 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23392

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, tbl.9, tf.4(8, bed 23), pl.28, f.12.

HYPOTYPE YPM 23393

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.28, f.14.

Pennsylvanian, Horquilla Limestone. At 785 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23394

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.192, pl.28, f.15.

Pennsylvanian, Horquilla Limestone. At 420 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

***Fusulina prolongada* Berry**

SYNTYPE YPM 21278

Berry, W. 1933. Pan-Am. Geol. v.59, p.271, pl.22, f.11.

=*Schwagerina prolongada.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, pl.1, f.6.

SYNTYPE YPM 24370

Berry, W. 1933. Pan-Am. Geol. v.59, p.270, pl.22, f.1.

=*Schwagerina prolongada.* LECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#1), pl.1, f.1.

SYNTYPE YPM 24371

Berry, W. 1933. Pan-Am. Geol. v.59, p.271, pl.22, f.5.

=*Schwagerina prolongada.* PARALECTOTYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457

Permian. Chulpapampa, Bolivia. Collector: Berry, E.W. and Singewald, J.T., 1919.

***Fusulina rockymontana* Roth and Skinner**

HYPOTYPE YPM 14668B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.43, f.8.

Pennsylvanian, McCoy Fm. About 160 ft below top of McCoy, zone 177E, near McCoy, Eagle Co., Colorado, USA. Collector: Roth, R.I.

HYPOTYPE YPM 14669D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.43, f.5.

Pennsylvanian, McCoy Fm. McCoy. Eagle Co., Colorado, USA. Collector: Roth, R.I.

HYPOTYPE YPM 23472

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(2, bed 2-5f), pl.76, f.8.

Pennsylvanian, Horquilla Limestone. At 470 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 23473

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(1, bed 1-9), pl.76, f.9.

HYPOTYPE YPM 23474

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.10.

Pennsylvanian, Horquilla Limestone. At 295 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Fusulina* cf. *F. rockymontana* Roth and Skinner**

HYPOTYPE YPM 23481

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.17.[a]

HYPOTYPE YPM 23482

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.18.[a]

HYPOTYPE YPM 23483

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(1, bed 1-6), pl.76, f.19.[a]

HYPOTYPE YPM 23484

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.20.[a]

Pennsylvanian, Horquilla Limestone. At 160 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

[a]Published locality is incorrect; locality is 1-6, not 1-7.

***Fusulina* sp.**

HYPOTYPE YPM 23498

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.76, f.37.

Pennsylvanian, Horquilla Limestone. About 150 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Fusulina* n. sp.**

HYPOTYPE YPM 50010[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.42, f.6.

No locality information available.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Fusulina sulphurensis* Ross and Sabins**

HOLOTYPE YPM 23381

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, tbl.9, pl.28, f.1.

PARATYPE YPM 23382

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, pl.28, f.2.

PARATYPE YPM 23383

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, tbl.9, pl.28, f.3.

PARATYPE YPM 23384

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, tf.4, pl.28, f.4.

PARATYPE YPM 23385

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, tbl.9, pl.28, f.5.

PARATYPE YPM 23386

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, pl.28, f.6.

PARATYPE YPM 23387

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.195, pl.28, f.7.

Pennsylvanian, Horquilla Limestone. At 700 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella ajaxensis* Ross and Sabins**

HOLOTYPE YPM 22047

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.7, pl.22, f.22.

PARATYPE YPM 22043A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.17.

PARATYPE YPM 22043B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.7, pl.21, f.35, pl.22, f.18.

PARATYPE YPM 22044

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.19.

PARATYPE YPM 22045

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.20.

PARATYPE YPM 22046

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.21.

PARATYPE YPM 22048

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.7, pl.22, f.23.

Pennsylvanian, Horquilla Limestone. At 360 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella cabezasensis* Ross and Sabins**

HOLOTYPE YPM 23342

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, pl.26, f.13.

PARATYPE YPM 23338

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, pl.26, f.9.

PARATYPE YPM 23339

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.26, f.10.

PARATYPE YPM 23340

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.26, f.11.

PARATYPE YPM 23341

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, pl.26, f.12.

Pennsylvanian, Horquilla Limestone. At 90 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella* cf. *F. cabezasensis* Ross and Sabins**

HYPOTYPE YPM 23462

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.31.

Pennsylvanian, Horquilla Limestone. At 162 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Fusulinella? cochisensis* Ross and Sabins**

HOLOTYPE YPM 22308

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, tbl.6, tf.4, pl.27, f.1.

PARATYPE YPM 14299

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, pl.27, f.4.[a]

Pennsylvanian, Horquilla Limestone. Float and in place, 6 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22309

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, tbl.6, pl.27, f.2.

Pennsylvanian, Horquilla Limestone. At 40 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22310

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, tbl.6, pl.27, f.3.

PARATYPE YPM 22311

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, pl.27, f.8.[b]

PARATYPE YPM 22312

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, pl.27, f.5.

PARATYPE YPM 22313

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, pl.27, f.6.

Pennsylvanian, Horquilla Limestone. Float and in place, 6 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5

mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22314

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, pl.27, f.7.

Pennsylvanian, Horquilla Limestone. At 40 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

[a]Cited as YPM 22311b.

[b]Cited as YPM 22311a.

***Fusulinella devexa* Thompson**

HYPOTYPE YPM 22059

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.13.

HYPOTYPE YPM 22060

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.14.

HYPOTYPE YPM 22061

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, tf.4, pl.24, f.15.

HYPOTYPE YPM 22062

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, pl.24, f.16.

HYPOTYPE YPM 22063

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.17.

HYPOTYPE YPM 22064

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, pl.24, f.18.

Pennsylvanian, Horquilla Limestone. At 122 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 22065

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tf.4, pl.24, f.19.

HYPOTYPE YPM 22066

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.20.

HYPOTYPE YPM 22307

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.22.[a]

HYPOTYPE YPM 26560

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.21.[b]

Pennsylvanian, Horquilla Limestone. At 129 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

[a]Incorrectly cited as YPM 22037.

[b]Incorrectly cited as YPM 22067.

***Fusulinella dosensis* Ross and Sabins**

HOLOTYPE YPM 22343

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, tf.4(1, bed 7), pl.23, f.14.

PARATYPE YPM 22328

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.17.

PARATYPE YPM 22341

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.12.

PARATYPE YPM 22342

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, pl.23, f.13.

PARATYPE YPM 22344

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.5, pl.23, f.15.

PARATYPE YPM 22345

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.16.

Pennsylvanian, Horquilla Limestone. At 102 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise

Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella famula* Thompson**

HYPOTYPE YPM 23378

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tf.4(8, bed 20), pl.25, f.25.

HYPOTYPE YPM 23379

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.7, pl.25, f.26.

HYPOTYPE YPM 23380

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.7, pl.25, f.27.

Pennsylvanian, Horquilla Limestone. At 485 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 26598

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1412, pl.170, f.8, pl.171, f.1,2.

HYPOTYPE YPM 26599

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1412, pl.171, f.3,4.

HYPOTYPE YPM 26600

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1412, pl.171, f.5,6.

HYPOTYPE YPM 26601

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1412, pl.171, f.7,8.

HYPOTYPE YPM 26602

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1412, pl.171, f.9,10.

Late Pennsylvanian, Horquilla Limestone. Lower 7 ft of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 9/3/1966.

***Fusulinella girtyi* Dunbar and Condra**

SYNTYPE YPM 11002A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.76, pl.2, f.1.

=*Fusulina girtyi.* PARALECTOTYPE. Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115.

SYNTYPE YPM 11002B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.76, pl.2, f.3.
=*Fusulina girtyi.* LECTOTYPE. Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, tbl.(p.116,#1), pl.11, f.9.

SYNTYPE YPM 11002C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.76, pl.2, f.2.

=*Fusulina girtyi.* PARALECTOTYPE. Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, tbl.(p.116,#2), pl.12, f.4.

SYNTYPE YPM 11002D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.76, tf.1 (right), pl.2, f.4.

=*Fusulina girtyi.* PARALECTOTYPE. Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115, tbl.(p.116,#7), pl.11, f.15.

Pennsylvanian. Just above Herrin coal, near Canton, Fulton Co., Illinois, USA. Collector: Savage, T.E., 1919.

SYNTYPE YPM 11245

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.76, pl.2, f.5.

=*Fusulina girtyi.* PARALECTOTYPE. Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.115.

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Upper Fort Scott, Centerville, center W sec5T50NR27W, Appanoose Co., Iowa, USA. Collector: Condra, G.E. and others.

***Fusulinella haworthi* (Beede)**

HYPOTYPE YPM 11246A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.6.

HYPOTYPE YPM 11246B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.7.

HYPOTYPE YPM 11246C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.8.

HYPOTYPE YPM 11246D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.9.

HYPOTYPE YPM 11246E

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.10.

HYPOTYPE YPM 11246F

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.82, pl.2, f.11.

Late Pennsylvanian, McLeansboro Grp, Lonsdale Limestone. Just above Lonsdale, Sparland, Marshall Co., Illinois, USA.

***Fusulinella keatingensis* Ross and Sabins**

HOLOTYPE YPM 22037

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.6, pl.22, f.11.[a]

PARATYPE YPM 22034

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.8.

PARATYPE YPM 22035

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.9.

PARATYPE YPM 22036

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.6, tf.4(9, bed 9), pl.22, f.10.

PARATYPE YPM 22038

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.12.

Pennsylvanian, Horquilla Limestone. At 185 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

PARATYPE YPM 22039

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, tbl.6, pl.22, f.13.

PARATYPE YPM 22040

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.14.

PARATYPE YPM 22041

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.15.

PARATYPE YPM 22042

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.187, pl.22, f.16.

Pennsylvanian, Horquilla Limestone. At 5 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

[a]Not pl.24, f.22.

***Fusulinella llanoensis* (Thomas)**

HYPOTYPE YPM 26356

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.44, f.5.

Early Pennsylvanian, Marble Falls Limestone. At 9 mi SW of Mason, on White Ranch Road, 1 mi NE of river, Mason Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

See also *Fusulina llanoensis* Thomas.

***Fusulinella meeki robusta* Dunbar and Condra**

SYNTYPE YPM 11251A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.80, pl.15, f.7.

SYNTYPE YPM 11251B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.80, pl.15, f.8.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone Mbr. Pawnee Creek, 3.5 mi N and 1.5 mi W of Pawnee, Marmaton Quad., NW sec30T26SR24E, Bourbon Co., Kansas, USA. Collector: Condra, G.E. and others.

***Fusulinella nipperensis* Ross and Sabins**

HOLOTYPE YPM 22338

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.3, tf.4(8, bed 16), pl.23, f.9.

PARATYPE YPM 22339

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.10.

PARATYPE YPM 22340

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.11.

Pennsylvanian, Horquilla Limestone. At 425 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella oakensis* Ross and Sabins**

HOLOTYPE YPM 23377

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, pl.25, f.24.

PARATYPE YPM 23372A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.25, f.18.

PARATYPE YPM 23372B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.21, f.38, pl.25, f.22.

PARATYPE YPM 23373

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.25, f.19.

PARATYPE YPM 23374

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, tf.4, pl.25, f.20.

PARATYPE YPM 23375

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.25, f.21.

PARATYPE YPM 23376

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.25, f.23.

Pennsylvanian, Horquilla Limestone. At 390 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23459

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.26.

HYPOTYPE YPM 23460

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tf.5(1, bed 1-2), pl.75, f.27.

HYPOTYPE YPM 23461
Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.28.

Pennsylvanian, Horquilla Limestone. At 65 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Fusulinella peruana* (Meyer)**

HYPOTYPE YPM 17459A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#1), pl.12, f.1.

HYPOTYPE YPM 17459B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#2), pl.12, f.2.

HYPOTYPE YPM 17459C

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#3), pl.12, f.3.

HYPOTYPE YPM 17460

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#4), pl.12, f.4,5.

HYPOTYPE YPM 17461A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#5), pl.12, f.6.

HYPOTYPE YPM 17461B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.486, tbl.(p.488,#6), pl.12, f.7.

Pennsylvanian. Bed 22, about 4 km WSW of Tarma, S of Tarma-Oroya highway, Peru. Collector: Newell, N.D.

***Fusulinella prospectensis* Ross and Sabins**

HOLOTYPE YPM 22363

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.7, tf.4, pl.23, f.37.[a]

PARATYPE YPM 22360

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.34.[a]

PARATYPE YPM 22361

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, tbl.7, tf.4, pl.23, f.35.[a]

Pennsylvanian, Horquilla Limestone. At 400 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22362

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.36.[b]

PARATYPE YPM 22364

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.38.

Pennsylvanian, Horquilla Limestone. At 360 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22365

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.189, pl.23, f.39.[a]

Pennsylvanian, Horquilla Limestone. At 400 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

[a]Omitted in description for pl.23.

[b]Figure number omitted in plate description.

Fusulinella protensa Thompson

HYPOTYPE YPM 22049

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, pl.24, f.1.

Pennsylvanian, Horquilla Limestone. At 177 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 22050

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.2.

Pennsylvanian, Horquilla Limestone. At 172 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 22051

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, pl.24, f.3.

HYPOTYPE YPM 22052

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.21, f.37, pl.24, f.4.

Pennsylvanian, Horquilla Limestone. At 177 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 22053

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.6, tf.4, pl.24, f.5.

Pennsylvanian, Horquilla Limestone. At 172 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

Fusulinella sp. A

HYPOTYPE YPM 22354

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.190, tbl.3, pl.23, f.27,28.

Pennsylvanian, Horquilla Limestone. At 327 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA.

Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella velmae* Thompson**

HYPOTYPE YPM 22054A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.6.

HYPOTYPE YPM 22054B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.11.

HYPOTYPE YPM 22055A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.5, pl.24, f.7.

HYPOTYPE YPM 22055B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.5, tf.4(8, bed 2), pl.24, f.10.

HYPOTYPE YPM 22056

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.5, pl.24, f.8.

HYPOTYPE YPM 22057A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, pl.24, f.9.

HYPOTYPE YPM 22058

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.186, tbl.5, pl.24, f.12.

Pennsylvanian, Horquilla Limestone. At 127 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Fusulinella whitensis* Ross and Sabins**

HOLOTYPE YPM 22337

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, pl.23, f.8.

PARATYPE YPM 22323B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.4.

Pennsylvanian, Horquilla Limestone. At 433 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22333A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, pl.23, f.1.

PARATYPE YPM 22333B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, pl.23, f.3.

Pennsylvanian, Horquilla Limestone. At 425 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22334

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, tbl.7, pl.23, f.2.

Pennsylvanian, Horquilla Limestone. At 433 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains,W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22335

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.5.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

PARATYPE YPM 22336A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.6.

PARATYPE YPM 22336B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.188, pl.23, f.7.

Pennsylvanian, Horquilla Limestone. At 425 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section

19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Glomospira glomerosa* Eicher**

HOLOTYPE YPM 20428

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.56, pl.3, f.6a,6b.

Early Cretaceous, Shell Creek Shale. Unit 5, 4.0 ft, section 32, near Clifton, E of old US Hwy 85, SW sec18T43NR60W, Weston Co., Wyoming, USA. Collector: Eicher, D.L.

***Glomospira reata* Eicher**

HOLOTYPE YPM 20429

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.56, pl.3, f.4a,4b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

PARATYPE YPM 20430

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.56, pl.3, f.5.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 51-64 ft above base of unit 25, section 22, offset 2 mi NW to sec22T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Glomospira tortuosa* Eicher**

HOLOTYPE YPM 20431

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.57, pl.3, f.8a,8b.

Early Cretaceous, Thermopolis Shale. Unit 6, 8.2 ft, section 30, 1 mi N of Iron Mountain, SE sec3T18NR70W, Laramie Co., Wyoming, USA. Collector: Eicher, D.L.

***Haplophragmoides gigas* Cushman**

HYPOTYPE YPM 20432

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.58, pl.3, f.16.

Early Cretaceous, Skull Creek Shale. Unit 8, 2.4 ft, section 37, roadcut NW of New Haven, NW sec11T55NR67W, Crook Co., Wyoming, USA. Collector: Eicher, D.L.

***Haplophragmoides multiplum* Stelck and Wall**

HYPOTYPE YPM 20433

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.58, pl.3, f.12a,12b.

Early Cretaceous, Shell Creek Shale. At 14-24 ft above base of unit 14, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Haplophragmoides uniorbis* Eicher**

HOLOTYPE YPM 20434
Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.15a,15b.

PARATYPE YPM 20435

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.13a,13b.

PARATYPE YPM 20436

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.59, pl.3, f.14.

Early Cretaceous, Shell Creek Shale. At 14-24 ft above base of unit 14, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Involutina kiowensis* (Loeblich and Tappan)**

HYPOTYPE YPM 20437

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.55, pl.3, f.3a,3b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 72-86 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W. Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Leëlla bellula* Dunbar and Skinner**

SYNTYPE YPM 15002

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.46, f.13.

SYNTYPE YPM 15003A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, tbl.(p.604-605,#4), pl.46, f.5,14.

Dunbar, C.O. 1940. Foraminifera, p.139, pl.44, f.5.

Dunbar, C.O. 1948. Foraminifera, p.150, pl.44, f.5.

SYNTYPE YPM 15003B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, tbl.(p.604-605,#3), pl.46, f.8.

Middle Permian, Guadalupian, Capitan Fm, Altuda Mbr. At 20 ft above base of Altuda, NE corner of Altuda Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Skinner, J.W.

SYNTYPE YPM 20910

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.46, f.6.

SYNTYPE YPM 20911

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, tbl.(p.604-605,#2), pl.46, f.9.

SYNTYPE YPM 20912

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.46, f.10.

SYNTYPE YPM 20913

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, tbl.(p.604-605,#6), pl.46, f.12.

SYNTYPE YPM 21159A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.46, f.1,4.[a]

SYNTYPE YPM 21159B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.46, f.2,3.[b]

Permian, Capitan Fm, Carlsbad Limestone Mbr. At 2.2 mi N of Guadalupe Peak, on N wall of Pine Spring Canyon, halfway from Bush Mountain. to head of trail leading down into canyon, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

[a]Figures show 2 views of 1 specimen (21159A), not 2 specimens as the plate explanation implies.

[b]Figures show 2 views of 1 specimen (21159B), not 2 specimens as the plate explanation implies.

***Lituotuba* sp.**

HYPOTYPE YPM 20438

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.57, pl.3, f.7.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 1-15 ft below Muddy Sandstone, section 3, S of Owl Creek, SW sec14T43NR95W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 50044

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.57.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 68-78 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Miliammina inflata* Eicher**

HOLOTYPE YPM 20441

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.70, pl.5, f.13a-13c.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 33-44 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

PARATYPE YPM 20442

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.70, pl.5, f.14a-14c.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 42-63 ft above base of unit 17, section 15, E to steeply-dipping beds on Tensleep Fault, SE sec24T47NR89W, Washakie Co., Wyoming, USA. Collector: Eicher, D.L.

***Miliammina ischnia* Tappan**

HYPOTYPE YPM 20439

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.71, pl.5, f.12a-12c.

Early Cretaceous, Muddy Sandstone. Unit 6, 4.0 ft, section 7, Thermopolis Hill W of Thermopolis, NW sec34T43NR95W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20440

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.71, pl.5, f.11a-11c.

Early Cretaceous, Shell Creek Shale. At 0-15 ft above base of unit 2, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Miliammina manitobensis* Wickenden**

HYPOTYPE YPM 20443

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.71, pl.5, f.15.

Early Cretaceous, Shell Creek Shale. At 187 ft above base of unit 16, section 21, W of old Cloverly Post

Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20444

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.71, pl.5, f.16.

Early Cretaceous, Shell Creek Shale. At 60-66 ft above base of unit 2, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Miliammina* cf. *M. sproulei* Nauss**

HYPOTYPE YPM 20445

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.72, pl.5, f.18a,18b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 64-76 ft above base of unit 25, section 22, offset 2 mi NW to sec22T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20446

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.72, pl.5, f.17a,17b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 33-44 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Millerella marblensis* Thompson**

PARATYPE YPM 17061

Thompson, M.L. 1942. Am. J. Sci. v.240, p.405.

Pennsylvanian, Bend Grp. At 150 yd downstream from bridge and 6 ft above water level, Burnet Co., Texas, USA.

PARATYPE YPM 17063

Thompson, M.L. 1942. Am. J. Sci. v.240, p.405.

Pennsylvanian, Bend Grp. At 150 yd downstream from bridge and near water level, Burnet Co., Texas, USA.

PARATYPE YPM 17064

Thompson, M.L. 1942. Am. J. Sci. v.240, p.405.

Pennsylvanian, Bend Grp. Bed 31, section 17, S wall of Powwow Canyon, El Paso Co., Texas, USA.

HYPOTYPE YPM 23423

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.18.

Pennsylvanian, Horquilla Limestone. At 185 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23424A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.19.

HYPOTYPE YPM 23424B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.20.

Pennsylvanian, Horquilla Limestone. At 50 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23425

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.21.

Pennsylvanian, Horquilla Limestone. At 40 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23426

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, tbl.3, pl.21, f.22.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23427

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.23.

Pennsylvanian, Horquilla Limestone. At 50 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins,

F.F., 3/1962.

HYPOTYPE YPM 23428

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.24.

Pennsylvanian, Horquilla Limestone. At 115 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23429

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, pl.21, f.25.

HYPOTYPE YPM 23430

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, tbl.3, pl.21, f.26.

Pennsylvanian, Horquilla Limestone. At 327 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23431

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.183, tbl.3, pl.21, f.27.

Pennsylvanian, Horquilla Limestone. Float and in place, 6 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23499

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.621, pl.76, f.38,40.

HYPOTYPE YPM 23500

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.621, pl.76, f.39.

HYPOTYPE YPM 23501

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.621, pl.76, f.41.

HYPOTYPE YPM 23502

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.621, pl.76, f.42.

Early Pennsylvanian, Black Prince Limestone. Upper part of Black Prince, measured section, Northeast Fault Block, 1.8 mi SE of East Peak, eastcentral Whetstone Mountains, NW NE sec25T18SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Misellina lepida* (Schwager)**

HYPOTYPE YPM 9924

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.138, pl.12, f.3.

=*Doliolina lepida*. Dunbar, C.O. 1940. Foraminifera, p.152, pl.12, f.3.

Dunbar, C.O. 1948. Foraminifera, p.166, pl.12, f.3.

Middle Permian. Lat 28°20'N, Long 112°10'E, China. Collector: Lee, J.S.

***Monodiexodina bispatulata* Williams**

HOLOTYPE YPM 22460

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.33, tbl.1, pl.1, f.1.

PARATYPE YPM 22461

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.33, pl.1, f.2.

PARATYPE YPM 22462

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.33, tbl.1, pl.1, f.3.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 8 ft above base of unit 19, WSW to ENE 1.8-mi-long measured section (section 1) in canyon 1.5 mi N of Powwow Canyon and starting at base of Hueco Canyon Fm 0.4 mi N15E of hill 5454, and ending on N-S ridge 0.25 mi SW of BM 5318 on N-S dirt road, and 1.2 mi N of Hueco Inn, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

PARATYPE YPM 22463

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.33, tbl.1, tf.3, pl.1, f.4.

PARATYPE YPM 22464

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.33, tbl.1, pl.1, f.5.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, roadcut on dirt road, 0.25 mi W of US Rts 62-180, and 0.6 mi WSW of BM 5067, and 1.4 mi WSW of Hueco Inn, and on N side of Powwow Canyon, central Hueco Mountains, Hueco Mountains

15 Quad, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Monodiexodina linearis **(Dunbar and Skinner)**

HYPOTYPE YPM 20767

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, tbl.(p.160), pl.14, f.7.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 7 (2 ft thick), section 17, S side of hill 5816, between top of intrusion and point three quarters of the way up to summit, Hess Ranch horst, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20768

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, tbl.(p.160), pl.14, f.5.

HYPOTYPE YPM 20769

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, pl.14, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. Float talus from near middle of Lenox Hills Fm, about 600 ft N30E of section 2, which is measured up to the saddle in the SW windgap on the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20770

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, tbl.(p.160), pl.14, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. Float talus from 80 ft below top of Lenox Hills Fm, 750 ft N30E of section 2, which is measured up to the saddle in the SW windgap on the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20772

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, tbl.(p.160), pl.14, f.1.

Early Permian, Wolfcampian, Lenox Hills Fm. Float talus from near middle of Lenox Hills Fm, about 600 ft N30E of section 2, which is measured up to the saddle in the SW windgap on the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20773

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, tbl.(p.160), pl.14, f.6.

Early Permian, Leonardian, Leonard Fm. Near base of unit 4 (16 ft thick), section 11, W end of Leonard Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21844

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6, tbl.(p.7), pl.2, f.11.

Early Permian, Leonardian, Leonard Fm. Unit 12 (58 ft thick), section 9, just W of Sullivan Ranch Road S side of the Lenox Hills, about 3.25 mi N 10° E of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21845

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6, tbl.(p.7), pl.2, f.12.

HYPOTYPE YPM 21846

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6, tbl.(p.7), pl.2, f.13.

Early Permian, Leonardian, Leonard Fm. Unit 12 (3 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

See also *Schwagerina linearis* Dunbar and Skinner.

Monodiexodina linearis? **(Dunbar and Skinner)**

HYPOTYPE YPM 20771

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160, pl.14, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 8 (3 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

Nankinella **cf.** ***N. orbicularia*** **Lee**

HYPOTYPE YPM 26336

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.105, pl.1, f.3.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

Nankinella **sp. A**

HYPOTYPE YPM 26335F

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.2.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

Nankinella **? sp.**

HYPOTYPE YPM 23617

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1174, pl.145, f.12.

HYPOTYPE YPM 24246A

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1174, pl.145, f.11.

HYPOTYPE YPM 24246B

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1174, pl.145, f.13.

Late Pennsylvanian, Gaptank Fm. Light gray weathering limestone, 15 ft above base of unit 10 (38 ft thick), section 26, beginning 2.5 mi N40E of the Neal Ranch house, base of the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Neoschwagerina craticulifera* (Schwager)**

HYPOTYPE YPM 14969A

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.1.

HYPOTYPE YPM 14971A

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.3a (upper).

HYPOTYPE YPM 14971D

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.3a (lower).

Permian. Near Chiang Mia, Thailand. Collector: Heim, A.

***Ozawainella delawarensis* Dunbar and Skinner**

SYNTYPE YPM 20895

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.602, pl.46, f.21.

SYNTYPE YPM 20896

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.602, pl.46, f.22.

SYNTYPE YPM 20897

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.602, pl.46, f.23,26.

SYNTYPE YPM 20898

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.602, pl.46, f.24.

SYNTYPE YPM 20899

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.602, pl.46, f.25.

Middle Permian, Guadalupian, Delaware Mountain Grp. Zone of transition from Delaware Mountain Sandstone to Capitan Limestone, head of Rader Ridge, 1.5 mi N20E of Frijole Post Office, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

***Ozawainella huecoensis* Dunbar and Skinner**

SYNTYPE YPM 15006A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16,21.

SYNTYPE YPM 15006B
Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16,19.

SYNTYPE YPM 15006C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16,20.

SYNTYPE YPM 15006D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16,17.

SYNTYPE YPM 15006E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16,18.

SYNTYPE YPM 15006F–15006H, 15006J–15006L

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16.

SYNTYPE YPM 15006M

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.16.

SYNTYPE YPM 15008

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.22.

SYNTYPE YPM 15009

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.23.

SYNTYPE YPM 15010

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.24.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, from beds stratigraphically above that capping Juan Peak, ridge E of Juan Peak, 4 mi NE of Hueco Tanks, Hueco Mountains, Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15015

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.601, pl.45, f.25.

Early Permian, Wolfcampian, Wolfcamp Fm. Upper Wolfcamp, bed containing large *Schwagerina*, westernmost outcrop of Wolfcamp on Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Ozawainella? inflata* Thompson**

HYPOTYPE YPM 23442

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.9.

Pennsylvanian, Horquilla Limestone. At 416 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 23443

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, pl.75, f.10.[a]

Pennsylvanian, Horquilla Limestone. At 340 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

[a]Published locality is incorrect; locality is 2-4e, not 2-4c.

***Paleofusulina prisca* Deprat**

HYPOTYPE YPM 26343

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.105, pl.1, f.16.

HYPOTYPE YPM 26344

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.105, pl.1, f.17.

Early Permian. NE of Likiang, northwestern Yunnan, China. Collector: Misch, P.

***Parafusulina allisonensis* Ross**

HOLOTYPE YPM 21202

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.2.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 84 (12 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21199

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.5.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Lowest bed of unit 6 (200 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21200

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.7.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 30 ft above base of unit 5 (80 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21201

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.3.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 160 ft above base of unit 9 (215 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21203

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.8.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 84 (12 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21204

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.1.

HYPOTYPE YPM 21205

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.126), pl.19, f.6.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 29 ft above base of unit 23 (34 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21206

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, pl.19, f.9.

HYPOTYPE YPM 21243

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, pl.19, f.4.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 84 (12 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21834

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.14, tbl.(p.15), pl.2, f.1.

Early Permian, Leonardian, Leonard Fm. Unit 21 (11 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21835

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.14, pl.2, f.2.

Early Permian, Leonardian, Leonard Fm, Mbr B. At 1 ft above base of unit 6 (18 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21836

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.14, tbl.(p.15), pl.2, f.3.

HYPOTYPE YPM 21837

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.14, tbl.(p.15), pl.2, f.4.

Early Permian, Leonardian, Leonard Fm. Unit 21 (11 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21999

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.28, tbl.(p.28), pl.5, f.3.

Middle Permian, Guadalupian, Word Fm. Unit 10 (8 ft thick), section 5A, measured E to W from base of slope to Capitan Limestone at ridge crest, and 3 mi NW of hill 5420 of Iron Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 25803

Dunbar, C.O. 1969. Bull. Indian Geol. Assoc. v.2, n.1 and 2, p.1, pl.1, f.3.

Permian. A restricted zone near base of Permian sequence, northernmost exposures, near abandoned mining camp of El Antimonio, Mill Hill in the Monos Hills, and 2.25 mi NNE of El Antimonio, and about 30 mi E of Caborca, Sonora, Mexico. Collector: Dunbar, C.O., 9/1/1956.

***Parafusulina? antimonioensis* Dunbar**

HYPOTYPE YPM 21998

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.28, tbl.(p.28), pl.5, f.2.

Stevens, C.H. 1995. J. Paleont. v.69, n.5, tf.3.5.

Middle Permian, Guadalupian, Word Fm. Base of unit 54 (32 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina bösei* Dunbar and Skinner**

SYNTYPE YPM 15135A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(p.680, #6), pl.73, f.9.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15135B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15136A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, pl.73, f.1 (upper left),3.[a]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15136B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, pl.73, f.1 (lower left).[a]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15136C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, pl.73, f.1 (upper center).[a]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15136D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, pl.73, f.1 (extreme right), possibly f.2.[a]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15137A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(#5, p.680), pl.73, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15137B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15138A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(#3, p.680), pl.73, f.7.[b]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15139A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(#1, p.680), pl.73, f.4.[b]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15140A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(#4, p.680), pl.73, f.8.[b]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15141A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679, tbl.(#2, p.680), pl.73, f.6.[b]

LECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15141B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE? YPM 15142A–15142C, 15143

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.679.[c]

PARALECTOTYPE? Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

HYPOTYPE YPM 15129A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, tbl.(#4, p.681), pl.74, f.7.[d]

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

Middle Permian, Guadalupian, Word Fm. South slope of Sullivan Peak, in lower part of the Word Fm (bed about 410 ft above base), in a 2-ft gray limestone 77 ft above the massive limestones that comprise the lower member of the Word at this locality, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 16558A

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, tbl.(p.42,#1), pl.11, f.3.

HYPOTYPE YPM 16558B

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, pl.11, f.4.

HYPOTYPE YPM 16559

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, tbl.(p.42,#3), pl.11, f.5.

HYPOTYPE YPM 16560
Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, tbl.(p.42,#6), pl.11, f.6.

HYPOTYPE YPM 16561A

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, tbl.(p.42,#4), pl.11, f.7 (middle left).

HYPOTYPE YPM 16561B

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.41, tbl.(p.42,#2), pl.11, f.7 (middle right).

Late Permian. Bed 6 of Malascachas section, fusuline limestone 1000 m S17W of summit of Cerro Colorado, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 21970

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.27), pl.3, f.2.

Middle Permian, Guadalupian, Word Fm. At 5 ft above base of unit 15 (17 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21971

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.3.

Middle Permian, Guadalupian, Word Fm. At 5 ft above base of unit 28 (75 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21972

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.27), pl.3, f.4.

Middle Permian, Guadalupian, Word Fm. At 25 ft below top of limestone and limestone ridge, basal Word, limestone (that caps the Clay Slide) on ridge to N of road to Sullivan Ranch house, and 1.3 mi S55E of Sullivan Peak (BM 6125), Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21973

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.5.

HYPOTYPE YPM 21974

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.6.

Middle Permian, Guadalupian, Word Fm. At 25 ft below top of unit 22 (60 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21975

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.27), pl.3, f.7.

Middle Permian, Guadalupian, Word Fm. Top of unit 23 (50 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21976

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.8.

Middle Permian, Guadalupian, Word Fm. At 25 ft below top of unit 22 (60 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21977

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.9.

Middle Permian, Guadalupian, Word Fm. At 5 ft above base of unit 28 (75 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21978

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.3, f.10

Middle Permian, Guadalupian, Word Fm. At 6 ft below top of limestone and limestone ridge, basal Word, limestone (that caps the Clay Slide) on ridge to N of road to Sullivan Ranch house, and 1.3 mi S55E of Sullivan Peak (BM 6125), Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 23534

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.78, f.1.[e]

HYPOTYPE YPM 23535

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.78, f.3.[e]

HYPOTYPE YPM 23536

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.78, f.4.[e]

Late Permian, Concha Limestone. About 450 ft above base of Concha, measured section, about 2 mi S of Apache Peak, central Whetstone Mountains, NE sec8T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 25673

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.27), pl.3, f.1.[f]

Middle Permian, Guadalupian, Word Fm. Unit 4 (2 ft thick), section 5A, measured E to W from base of slope to Capitan Limestone at ridge crest, and 3 mi NW of hill 5420 of Iron Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

See also *Parafusulina bösei attenuata* Dunbar and Skinner.

[a]Incorrectly cited as YPM 15127 in the explanation for pl.73.

[b]Incorrectly cited as YPM 15128 and/or 15129 in the explanation for pl.73.

[c]Although not cited in the original description, this slide is marked as a cotype.

[d]Not pl.73, f.4,6-8 (see *Parafusulina bosei*, YPM 15138A, 15139A, 15140A, 15141A).

[e]Incorrect locality given in plate description; locality is 5-1, not 1-28.

[f]Incorrectly cited as YPM 21969.

***Parafusulina bösei attenuata* Dunbar and Skinner**

SYNTYPE YPM 15127A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (upper middle left),9,11.[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15127B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (lower middle left).[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15127C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (upper center).[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15127D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (lower center).[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15127E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (extreme right),10.[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15127F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, pl.74, f.5 (lower right), probably f.8.[a]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15128A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, tbl.(#3, p.681), pl.74, f.6.[b]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963.

Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15128B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, tbl.(#1, p.681), pl.74, f.12.[b]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15129B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.680, tbl.(#2, p.681), pl.74, f.13.[b]

=*Parafusulina bösei.* HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

Middle Permian, Guadalupian, Word Fm. South slope of Sullivan Peak, in lower part of the Word Fm (bed about 410 ft above base), in a 2-ft gray limestone 77 ft above the massive limestones that comprise the lower member of the Word at this locality, Brewster Co., Texas, USA. Collector: Roth, R.I.

[a]Not pl.73, f.1-3 (see *Parafusulina bosei*, YPM 15136A–15136D).

[b]Not pl.73, f.4,6-8 (see *Parafusulina bosei*, YPM 15138A, 15139A, 15140A, 15141A).

***Parafusulina brooksensis* Ross**

HOLOTYPE YPM 21237

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.21, f.6.

HYPOTYPE YPM 21224

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.20, f.7.

HYPOTYPE YPM 21225

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.20, f.8.

HYPOTYPE YPM 21226

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.20, f.9.

HYPOTYPE YPM 21227

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.20, f.11.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 185 ft above base of unit 16 (205 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21228

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.20, f.12.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 15 ft below top of unit 11 (250 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21229

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.20, f.13.

HYPOTYPE YPM 21230

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.20, f.14.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 185 ft above base of unit 16 (205 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21231

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.20, f.10.

HYPOTYPE YPM 21233

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.21, f.1.

HYPOTYPE YPM 21234

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, pl.21, f.2.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 15 ft below top of unit 11 (250 ft thick), section 3, 4-mi-long, S to N measured section along W edge of

Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21235

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.21, f.3.

HYPOTYPE YPM 21236

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.129, tbl.(p.129), pl.21, f.4.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 53 ft above base of unit 16 (205 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina deliciasensis* Dunbar and Skinner**

SYNTYPE YPM 14674A

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, tbl.(p.180,#1), pl.1, f.2.[a]

LECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, tbl.(p.43,#1), pl.12, f.5.[b]

LECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674B

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (2nd row from bottom, left).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674C

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (extreme lower left).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674D

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.1,9 (2nd row from bottom, right).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, pl.12, f.1.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674E

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (extreme lower center).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674F

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (extreme lower right).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674G

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179.

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, pl.12, f.2.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14674H

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, tbl.(p.180,#4).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675A

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.5,7.

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, pl.12, f.4.
PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675C

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (extreme upper left).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675D

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (3rd row from bottom, left).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675E

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.6,9(complete small specimen)

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675F

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (3rd row from bottom, center).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 14675G

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.9 (3rd row from bottom, right).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Permian. S of El Tordillo, near Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

SYNTYPE YPM 16564

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179.

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, tbl.(p.43,#6), pl.12, f.7,9.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Early Permian, Leonardian. Bed 12 between Cerro Caballo and El Tordillo [= La Difunta], Coahuila State, Mexico. Collector: King, R.E.

SYNTYPE YPM 16565A

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179.

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, pl.12, f.6.[c]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 16565B

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179.

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, tbl.(p.43,.#5), pl.12, f.8.[d]

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 16566

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.179, pl.1, f.3,4,8,9 (largest specimen).

PARALECTOTYPE. Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

PARALECTOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Permian. S of El Tordillo, near Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16563

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42, pl.12, f.3.

Late Permian. Bed 17 of Difunta section, alternating shale and graywacke, 60 m N35 E of La Difunta, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 22000

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27, pl.5, f.4.

Middle Permian, Guadalupian, Word Fm. Unit 52 (8 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22001

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27, tbl.(p.28), pl.5, f.5.

Middle Permian, Guadalupian, Word Fm. Unit 32 (35 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22002

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27, tbl.(p.28), pl.5, f.6.

Stevens, C.H. 1995. J. Paleont. v.69, n.5, tf.3.3.

Middle Permian, Guadalupian, Word Fm. At 16 ft above base of limestone ledge, base of 4th limestone member, 5250-ft elevation, up on slope of N side of valley, and 0.75 mi NE of earthen tank, and near elbow of Hess Canyon and 4.7 mi N31E of Hess Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 7/16/1959.

HYPOTYPE YPM 22003

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27, tbl.(p.28), pl.5, f.7.

Stevens, C.H. 1995. J. Paleont. v.69, n.5, tf.3.4,4.5.

Middle Permian, Guadalupian, Word Fm. Unit 52 (8 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22004

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27, pl.5, f.8.

Middle Permian, Guadalupian, Word Fm. At 12 ft above base of unit 28 (75 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 25262

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687, pl.77, f.17.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. Bed 16 of Delaware Mountain Fm, 0.75 mi SE of Signal Peak Filling Station, Howard Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 26198

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.42.

Late Permian. Bed 17 of Difunta section, alternating shale and graywacke, 60 m N35 E of La Difunta, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

See also *Parafusulina maleyi* Dunbar and Skinner and *Parafusulina maleyi referta* Dunbar and Skinner.

[a]Referred to as "Types in Peabody Museum" on p.185.

[b]Designated as the holotype on pl.12, f.5; not the specimen mentioned on table (p.43, #5) or pl.12, f.8.

[c]Not table (p.43,#2).

[d]Incorrectly cited as YPM 14674 in the explanation for pl.12, f.8.

***Parafusulina deltoides* Ross**

HOLOTYPE YPM 21218

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.19, f.13.

HYPOTYPE YPM 21217

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.19, f.12.

HYPOTYPE YPM 21219

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.20, f.1.

HYPOTYPE YPM 21220

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.20, f.3.

HYPOTYPE YPM 21221

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.20, f.4.

HYPOTYPE YPM 21222

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, tbl.(p.127), pl.20, f.5.

HYPOTYPE YPM 21232

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.126, pl.20, f.2.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 5 ft above base of unit 10 (187 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina diabloensis* Dunbar and Skinner**

SYNTYPE YPM 15204A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.674, pl.60, f.8 (upper).

SYNTYPE YPM 15204B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.674, pl.60, f.8 (lower).

SYNTYPE YPM 15205

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.674, tbl.(p.675,#1), pl.60, f.11.

SYNTYPE YPM 15206A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.674, tbl.(p.675,#3), pl.60, f.9.

SYNTYPE YPM 15206B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.674, tbl.(p.675,#2), pl.60, f.10.

Early Permian, Leonardian, Bone Spring Limestone. Near the base of the Bone Spring Fm, Victorio Peak, Sierra Diablo, Culberson Co., Texas, USA. Collector: King, R.E.

***Parafusulina durhami* Thompson and Miller**

HYPOTYPE YPM 21866

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, tbl.(p.16), pl.6, f.1.

HYPOTYPE YPM 21867

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, tbl.(p.16), pl.6, f.2.

Early Permian, Leonardian, Leonard Fm, Mbr C. Unit 30 (12 ft thick), section 5, measured on N side of Leonard Mountain to top of that mountain, and NW down dip slope, and N across saddle to base of Word Fm, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21868

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, pl.6, f.3.

HYPOTYPE YPM 21869

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, pl.6, f.4.

HYPOTYPE YPM 21870

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, tbl.(p.16), pl.6, f.5.

HYPOTYPE YPM 21871

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, tbl.(p.16), pl.6, f.6.

Early Permian, Leonardian, Leonard Fm. A short distance above the *Leptodus* bed, 100 ft below top of Leonard, Split Tank, 1.7 mi N50E of Old Word Ranch house, Fenstermacher Ranch (Old Word Ranch), Glass Mountains, Brewster Co., Texas, USA. Collector: Dunbar, C.O. and Morris, P.A., 7/23/1941.

HYPOTYPE YPM 21872

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.15, pl.6, f.7.

Early Permian, Leonardian, Leonard Fm, Mbr C. Unit 30 (12 ft thick), section 5, measured on N side of Leonard Mountain to top of that mountain, and NW down dip slope, and N across saddle to base of Word Fm, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina empirensis* Sabins and Ross**

HOLOTYPE YPM 21921

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.362, tbl.28, pl.39, f.2.

HYPOTYPE YPM 21920

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.362, pl.39, f.1.

HYPOTYPE YPM 21922

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.362, tbl.28, pl.39, f.3.

HYPOTYPE YPM 21923

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.362, tbl.28, pl.39, f.4.

HYPOTYPE YPM 21924

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.362, tbl.28, pl.39, f.5.

Permian, Concha Limestone. At 620 ft above base of Concha, small, isolated outcrop on S side of Sahuarita Road, on high ridge between Pantano Hills and Total Wreck Ridge, Empire Mountain, E sec22T15SR30E, Pima Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Parafusulina fountaini* Dunbar and Skinner**

SYNTYPE YPM 25252A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (upper left).

SYNTYPE YPM 25252B[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (lower left), probably f.3.

SYNTYPE YPM 25252C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (upper center).

SYNTYPE YPM 25252D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (center).

SYNTYPE YPM 25252E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (lowermost),2.

SYNTYPE YPM 25252F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (upper right).

SYNTYPE YPM 25252G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.1 (extreme right).

SYNTYPE YPM 25253

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.4.

SYNTYPE YPM 25254

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.5.

SYNTYPE YPM 25255

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.6.

SYNTYPE YPM 25256

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.7.

SYNTYPE YPM 25257

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.8.

SYNTYPE YPM 25258

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.9.

SYNTYPE YPM 25259

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.70, f.10.

SYNTYPE YPM 25362

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675.

Early Permian, Leonardian, Victorio Peak Limestone. Loose block of light gray limestone on an alluvial fan below the outcrop of the white member (Victorio Peak Mbr) of the Bone Spring Limestone, W face of the Guadalupe Mountains, 1.5 mi W of summit of Cutoff Mountain and about 0.5 mi S of the N edge of Guadalupe Quad., Culberson Co., Texas, USA. Collector: Fountain, H.C., 1934.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Parafusulina imlayi* Dunbar**

HOLOTYPE YPM 21079

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1748, tbl.(p.1748,#1), tbl.(p.1749,#1), pl.1, f.3.

PARATYPE? YPM 21080

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1748, tbl.(p.1748,#3), tbl.(p.1749,#3), pl.1, f.1.[a]

PARATYPE? YPM 21081

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1748, pl.1, f.5.[a]

PARATYPE? YPM 21082A

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1748, tbl.(p.1748,#2), tbl.(p.1749,#2), pl.1, f.2.[a]

PARATYPE? YPM 21082B

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1748, pl.1, f.4.[a]

Permian. About 100 ft below top of Paleozoic limestone section at the S end of Sierra Huchita Hueca, 7 mi NE of Bavispe, Mexico. Collector: Imlay, R.W.

[a]Not specifically cited as a paratype, but the slide is marked with Dunbar's paratype symbol.

***Parafusulina ironensis* Ross**

HOLOTYPE YPM 21995

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.25, tbl.(p.25), pl.4, f.15.

HYPOTYPE YPM 21994

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.25, tbl.(p.25), pl.4, f.13.

HYPOTYPE YPM 21996

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.25, pl.4, f.14.

Middle Permian, Guadalupian, Word Fm. At 35 ft above base of unit 33 (80 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina kattaensis*? (Schwager)**

HYPOTYPE YPM 9925A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.42, f.10.

Permian, *Productus* Limestone. Lower *Productus* (50 ft above base), 2 mi NNE of Warcha, India. Collector: Geological Survey of India (pre-partition).

***Parafusulina kingorum* Dunbar and Skinner**

SYNTYPE YPM 20865

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.3,7 (lower).

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.73, f.2,6.

SYNTYPE YPM 20866

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.2,5.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.7.

SYNTYPE YPM 20867

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.4.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.5.

SYNTYPE YPM 20868

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.1.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.8.

Middle Permian, Word Fm. Upper Word, several [2.7-4.7] miles N of Word Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 21142

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.7 (upper).

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.1.

SYNTYPE YPM 25267

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.6 (upper piece).

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.3 (upper piece).

SYNTYPE YPM 25268

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183, pl.3, f.6 (lower piece).

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.3 (lower piece).

Middle Permian, Word Fm. Upper Word, E from hill 5360 to big fault 5 mi NE of Word Ranch, Glass Mountains, Brewster and Pecos Co., Texas, USA. Collector: King, R.E.

SYNTYPE? YPM 21144

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.183.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.691, pl.79, f.4.

Middle Permian, Word Fm. Fourth limestone member, N side of Hess Canyon, E of hill 5543, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

[a]Cited by Dunbar and Skinner (1937) on pl.79, f.4, as a cotype [syntype], although it was not cited in the original description.

***Parafusulina leonardensis* Ross**

HOLOTYPE YPM 21862

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, tbl.(p.17), p.18, pl.5, f.5.

Early Permian, Leonardian, Leonard Fm, Mbr B. At 8 ft above base of unit 12 (38 ft thick), section 5, measured on N side of Leonard Mountain to top of that mountain, and NW down dip slope, and N across saddle to base of Word Fm, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21858

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, tbl.(p.17), pl.5, f.1.

Early Permian, Leonardian, Leonard Fm, Mbr B. Float, 50 ft below top of unit 3 (60 ft thick), section 6C, continued up stratigraphically from section 6B, and measured up small knob ("Cooper's Hill") at SW end of Lenox Hills just W of main ridge, and about 2.5 mi N70W of Decie Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21859

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, tbl.(p.17), pl.5, f.2.

HYPOTYPE YPM 21860

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, pl.5, f.3.

Early Permian, Leonardian, Leonard Fm, Mbr B. Lower 5 ft of unit 40 (no top), section 6B, measured S to N from base of Lenox Hills escarpment, starting at point 2.25 mi N70W of Decie Ranch house, up to base of escarpment-forming limestone, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21861

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, pl.5, f.4.

Early Permian, Leonardian, Leonard Fm, Mbr B. Near top of unit 3 (60 ft thick), section 6C, continued up stratigraphically from section 6B, and measured up small knob ("Cooper's Hill") at SW end of Lenox Hills just W of main ridge, and about 2.5 mi N70W of Decie Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21863

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, pl.5, f.6.

Early Permian, Leonardian, Leonard Fm, Mbr B. Float, 50 ft below top of unit 3 (60 ft thick), section 6C, continued up stratigraphically from section 6B, and measured up small knob ("Cooper's Hill") at SW end of Lenox Hills just W of main ridge, and about 2.5 mi N70W of Decie Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21864

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, pl.5, f.7.

Early Permian, Leonardian, Leonard Fm, Mbr B. Lower 5 ft of unit 40 (no top), section 6B, measured S to N from base of Lenox Hills escarpment, starting at point 2.25 mi N70W of Decie Ranch house, up to base of escarpment-forming limestone, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21865

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.17, tbl.(p.17), pl.5, f.8.

Early Permian, Leonardian, Leonard Fm, Mbr A. Unit 3 (37 ft thick), section 5, measured on N side of Leonard Mountain to top of that mountain, and NW down dip slope, and N across saddle to base of Word Fm, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina lineata* Dunbar and Skinner**

HOLOTYPE YPM 15123

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.681, pl.74, f.1,3.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

PARATYPE YPM 15124

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.681, pl.74, f.2.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

PARATYPE YPM 15181

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.681, pl.74, f.4.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

Middle Permian, Guadalupian, Delaware Mountain Grp. Lower Delaware Sandstone, low hill just SE of intersection of pipeline and trail to Duff Williams' Ranch, 4 mi SSE of Guadalupe Point, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

HYPOTYPE YPM 21980

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, tbl.(p.30), pl.3, f.12.

HYPOTYPE YPM 21981

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, pl.3, f.13.

Middle Permian, Guadalupian, Word Fm. Basal Word, 10 ft below top of unit 3 (84 ft thick), section 4A, 1-mi-long S to N measured section starting from Old Word Ranch Road, and on to top of 1st Word Limestone escarpment along Hess Ranch-Old Word Ranch fence line, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina maleyi* Dunbar and Skinner**

SYNTYPE YPM 15125

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.9.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15126

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.1 (upper left corner),4.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. Lower Delaware Sandstone, low hill just SE of intersection of pipeline and trail to Duff Williams' Ranch, 4 mi SSE of Guadalupe Point, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE YPM 15144A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.2,3.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15145A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.1 (lower left).

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15145B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.1 (upper right),5.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15151

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.11.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15152A, 15152B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15152

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.7.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15155

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.10.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 15164

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.8.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Stevens, C.H. 1995. J. Paleont. v.69, n.5, tf.4.1.

SYNTYPE YPM 15164A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Delaware Mountain Grp. Lower Delaware Mountain Fm, W face of hill E of BM 4944, E wall of Guadalupe Canyon, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE YPM 15165A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686, pl.77, f.12.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Delaware Mountain Grp. Near top of middle member of the Delaware Mountain Fm, about 250 ft above the valley floor and 70 ft below the zone of *Polydiexodina shumardi*, N of the N end of the Apache Mountains, about 1 mi N of a point on the old Carlsbad-Van Horn road, which is 2.5 mi above where the latter emerges from a canyon in the Delaware Plateau to the Salt Plain, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE? YPM 15148, 15153

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.686.[a]

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Delaware Mountain Grp. Lower Delaware Mountain Fm, W face of hill E of BM 4944, E wall of Guadalupe Canyon, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Parafusulina maleyi referta* Dunbar and Skinner**

SYNTYPE YPM 25262A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. Bed 16 of Delaware Mountain Fm, 0.75 mi SE of Signal Peak Filling Station, Howard Co., Texas, USA. Collector: King, P.B., 1934.

SYNTYPE YPM 15165B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687, pl.77, f.13.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Delaware Mountain Grp. Near top of middle member of the Delaware Mountain Fm, about 250 ft above the valley floor and 70 ft below the zone of *Polydiexodina shumardi*, N of the N end of the Apache Mountains, about 1 mi N of a point on the old Carlsbad-Van Horn road, which is 2.5 mi above where the latter emerges from a canyon in the Delaware Plateau to the Salt Plain, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE YPM 20860

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687, pl.77, f.16.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. Bed DD of Getaway Limestone, 0.25-0.5 mi E of W end of Getaway Gap, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

SYNTYPE YPM 25260

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.675, pl.77, f.14.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 25261

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687, pl.77, f.15.

=*Parafusulina deliciasensis* Dunbar and Skinner.

HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE YPM 25263

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687, pl.77, f.18.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. At 2.5-3 mi S of El Capitan, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

SYNTYPE? YPM 25367

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687.[a]

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

SYNTYPE? YPM 25368

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.687.

=*Parafusulina deliciasensis* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.27.

Middle Permian, Guadalupian, Delaware Mountain Grp. Bed 16 of Delaware Mountain Fm, 0.75 mi SE of Signal Peak Filling Station, Howard Co., Texas, USA. Collector: King, P.B., 1934.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Parafusulina rothi* Dunbar and Skinner**

SYNTYPE YPM 20853

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181, pl.2, f.1.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.9.

Stevens, C.H. 1995. J. Paleont. v.69, n.5, tf.3.6.

SYNTYPE YPM 20854

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181, pl.2, f.2,5.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.7.

SYNTYPE YPM 20855

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181, pl.2, f.3.

SYNTYPE YPM 20856

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181, pl.2, f.4,6,8.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.2,5,6.

Middle Permian, Guadalupian, Delaware Mountain Grp. S of Guadalupe Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE? YPM 14675B, 14675H

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684.

Middle Permian, Guadalupian, Delaware Mountain Grp. Lower Delaware Sandstone, low hill just SE of intersection of pipeline and trail to Duff Williams' ranch, 4 mi SSE of Guadalupe Point, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE? YPM 15150

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684.[a]

SYNTYPE? YPM 15174A

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.3.

SYNTYPE? YPM 15175, 15180

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684.

SYNTYPE? YPM 15178

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.12.

SYNTYPE? YPM 15179

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.8.

Middle Permian, Delaware Mountain Grp. Lower Delaware Mountain Fm, W face of hill E of BM 4944, E wall of Guadalupe Canyon, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE? YPM 17207A

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[a]

=Parafusulina rothi?. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.10.

SYNTYPE? YPM 17207B

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.1,4.

Middle Permian, Guadalupian, Delaware Mountain Grp. Lower Delaware Sandstone, low hill just SE of intersection of pipeline and trail to Duff Williams' ranch, 4 mi SSE of Guadalupe Point, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE? YPM 20859

Dunbar, C.O., J.W. Skinner and R.E. King. 1936. Tex. Univ. Bull. n.3501, p.181.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.14.

Middle Permian, Guadalupian, Delaware Mountain Grp. S of Guadalupe Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE? YPM 20861, 20862

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684.[a]

Middle Permian, Guadalupian, Delaware Mountain Grp. Bed DD of Getaway Limestone, 0.25-0.5 mi E of W end of Getaway Gap, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

SYNTYPE? YPM 20864

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684.[a]

Middle Permian, Guadalupian, Delaware Mountain Grp. S of Guadalupe Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 16583

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, tbl.(p.44,#5), pl.13, f.6.

HYPOTYPE YPM 16584

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, tbl.(p.44,#6), pl.13, f.5.

HYPOTYPE YPM 16586

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, tbl.(p.44,#2), pl.13, f.1.

HYPOTYPE YPM 16587

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, tbl.(p.44,#1), pl.13, f.2.

HYPOTYPE YPM 16588

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, tbl.(p.44,#3), pl.13, f.3.

HYPOTYPE YPM 16589

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.43, pl.13, f.4.

Middle Permian. Probably bed 9, not beds 5 and 7, of Difunta section [per C.O. Dunbar], collection made along strike from Cerro Wencelao on S to 300 m W of El Indio on N, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 50012[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.13.

HYPOTYPE YPM 50013[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.684, pl.76, f.15.

Middle Permian, Guadalupian, Delaware Mountain Grp. Lower Delaware Sandstone, low hill just SE of intersection of pipeline and trail to Duff Williams' ranch, 4 mi SSE of Guadalupe Point, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

[b]Cited by Dunbar and Skinner (1937) as a cotype [syntype], although it was not cited in the original description.

[c]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Parafusulina schucherti* Dunbar and Skinner**

SYNTYPE YPM 15201A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, tbl.(p.673,#3), pl.64, f.10.

SYNTYPE YPM 15201B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, tbl.(p.673,#1), pl.64, f.12.

SYNTYPE YPM 15202

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, tbl.(p.673,#2), pl.64, f.11.

SYNTYPE YPM 15202A–15202C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672.

SYNTYPE YPM 15203A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, pl.64, f.9 (upper left).

SYNTYPE YPM 15203B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, pl.64, f.9 (left center).

SYNTYPE YPM 15203C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, pl.64, f.9 (lowermost).

SYNTYPE YPM 15203D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, pl.64, f.9 (upper right).

SYNTYPE YPM 15203E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.672, pl.64, f.9 (middle right).

Early Permian, Leonardian, Bone Spring Limestone. Shaly zone in the lower part of the Bone Spring Fm, 1.5 mi S of Victorio Peak, 1 mi E of BM 6140, Sierra Diablo, Culberson Co., Texas, USA. Collector: King, R.E.

***Parafusulina sellardsi* Dunbar and Skinner**

SYNTYPE YPM 15117A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (upper left).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15117B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (upper center),2.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15117C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (lower middle right),3.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15117D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.5.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15118A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (upper middle right).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15118B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (center).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15118C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (lower left).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15118D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.1 (lower right).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15120A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.4.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15120B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.9.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15120C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.11.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15121A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.6.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15121B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.8.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15122A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.7.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE YPM 15122B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688, pl.78, f.10.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

SYNTYPE? YPM 15119

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.688.[a]

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26.

Middle Permian, Guadalupian, Word Fm. Limestone member 3 of the Word Fm at the summit of the hill about 1 mi S of the junction of Road and Gilliland Canyons, Brewster Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

HYPOTYPE YPM 16569

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.44, pl.14, f.4.

Middle Permian. Probably bed 14 of Difunta section, fusuline limetone 600 m S75W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16571

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.44, tbl.(p.45,#4), pl.11, f.2.

HYPOTYPE YPM 16572

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.44, tbl.(p.45,#5), pl.14, f.3.

Middle Permian. Beds 12 and 14 of Malascachas section, fusuline limestone 750 m S38W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16574

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.44, tbl.(p.45,#1), pl.14, f.1.

Middle Permian. Probably bed 14 of Difunta section, fusuline limestone 600 m S75W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16591

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.44, pl.14, f.2.[b]

Middle Permian. Bed 6 of Malascachas section, fusuline limestone 1000 m S17W of summit of Cerro Colorado, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 21990

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.4, f.8.

Middle Permian, Guadalupian, Word Fm. Unit 4 (2 ft thick), section 5A, measured E to W from base of slope to Capitan Limestone at ridge crest, and 3 mi NW of hill 5420 of Iron Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22005

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.26), pl.5, f.9.

HYPOTYPE YPM 22006

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.5, f.10.

HYPOTYPE YPM 22007

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.26), pl.5, f.11.

Middle Permian, Guadalupian, Word Fm. Unit 41 (3 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22008

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, tbl.(p.26), pl.5, f.12.

Middle Permian, Guadalupian, Word Fm. At 5 ft above base of unit 47 (35 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22009

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.26, pl.5, f.16.

Middle Permian, Guadalupian, Word Fm. Unit 25 (8 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

[b]incorrectly cited as YPM 16573 in the explanation for pl.14.

***Parafusulina skinneri* Dunbar**

HOLOTYPE YPM 21110

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.4.

PARATYPE? YPM 21111

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.1,2.[a]

PARATYPE? YPM 21112

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.3.[a]

PARATYPE? YPM 21113

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.5.[a]

PARATYPE? YPM 21114

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.6.[a]

PARATYPE? YPM 21115

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1749, pl.2, f.7.[a]

Permian. At 1870 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

[a]Not specifically cited as paratype, but slide is marked with Dunbar's paratype symbol.

***Parafusulina sonoranensis* Dunbar**

HOLOTYPE YPM 21086

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.3.

PARATYPE? YPM 21087

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.1.[a]

PARATYPE? YPM 21088

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.2.[a]

Permian. At 1990 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

PARATYPE? YPM 21089

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.4.[a]

PARATYPE? YPM 21090

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.5.[a]

Permian. Loose block, presumably from 1990 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

PARATYPE? YPM 21091

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.6.[a]

PARATYPE? YPM 21092

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.7.[a]

PARATYPE? YPM 21093

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1750, pl.3, f.8.[a]

Permian. At 1990 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

[a]Not specifically cited as paratype, but slide is marked with Dunbar's paratype symbol.

***Parafusulina* sp. A**

HYPOTYPE YPM 21118

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.7.

HYPOTYPE YPM 21119

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.8.

Permian. At 1870 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

HYPOTYPE YPM 21215

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.131), pl.19, f.10.

HYPOTYPE YPM 21216

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.131), pl.19, f.11.

HYPOTYPE YPM 21223

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.131, tbl.(p.131), pl.20, f.6.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 5 ft above base of unit 11 (89 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21979

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.30, tbl.(p.30), pl.3, f.11.

Middle Permian, Guadalupian, Word Fm. At 16 ft above base of unit 46 (75 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 24375

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753.

Permian. At 1870 ft below top of Canyon de Santa Rosa, Mexico. Collector: Imlay, R.W.

***Parafusulina* sp. B**

HYPOTYPE YPM 21106

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.5.

HYPOTYPE YPM 21107

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.6.

Permian. At 1000 ft below top of Canyon de Noche Triste, Mexico. Collector: Imlay, R.W.

***Parafusulina* sp. C**

HYPOTYPE YPM 21108

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.3.

HYPOTYPE YPM 21109

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1753, pl.4, f.4.

Permian. At 2000 ft below top of Canyon de Noche Triste, Mexico. Collector: Imlay, R.W.

***Parafusulina spissisepta* Ross**

HOLOTYPE YPM 21192

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.7.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 15 ft above base of unit 9 (65 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 20657

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, pl.3, f.4.

HYPOTYPE YPM 20658

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, tbl.(p.18), pl.3, f.3.

Early Permian, Leonardian, Leonard Fm. Double ledge of King, 1931, Glass Mountains escarpment, 1.8 mi

NW of Wolf Camp Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21193

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.10.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 35 ft above base of unit 9 (65 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21194

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.9.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 28 (115 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21195

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.13.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 15 ft above base of unit 9 (65 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21196

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.11.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 35 ft above base of unit 8 (50 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21197

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, tbl.(p.128), pl.18, f.12.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 8 (50 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21198

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.127, pl.18, f.8.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 35 ft above base of unit 8 (50 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21820

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, tbl.(p.18), pl.1, f.4.

HYPOTYPE YPM 21821

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, tbl.(p.18), pl.1, f.5.

HYPOTYPE YPM 21822

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, pl.1, f.6.

HYPOTYPE YPM 21823

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, pl.1, f.7.

HYPOTYPE YPM 21847

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.18, pl.3, f.2.

Early Permian, Leonardian, Leonard Fm, Mbr B. Near base of unit 4 (205 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

Parafusulina splendens Dunbar and Skinner

SYNTYPE YPM 15131A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (uppermost),4.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15131B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (upper right).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15131C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (extreme left),2.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15131D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (lower left center).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15131E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (lower right center),3.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15131F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.75, f.1 (lower right).

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15132A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#5), pl.75, f.5.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15132B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#1), pl.75, f.11.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15133A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15133

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#3), pl.75, f.9.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15134

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#2), pl.75, f.10.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15138

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#7), pl.75, f.7.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15139

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#8), pl.75, f.8.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 15140

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, tbl.(p.683,#6), pl.75, f.6.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

SYNTYPE YPM 50014[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.682, pl.73, f.10.

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29.

Middle Permian, Guadalupian, Word Fm. South slope of Sullivan Peak, in lower part of the Word Fm (bed about 410 ft above base), in a 2-ft gray limestone 77 ft above the massive limestones that comprise the lower member of the Word at this locality, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 21993

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, pl.4, f.11.

Middle Permian, Guadalupian, Word Fm. Unit 4 (2 ft thick), section 5A, measured E to W from base of slope to Capitan Limestone at ridge crest, and 3 mi NW of hill 5420 of Iron Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21997

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, tbl.(p.29), pl.5, f.1.

HYPOTYPE YPM 22019

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, tbl.(p.29), pl.4, f.16.

HYPOTYPE YPM 22020

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.29, tbl.(p.29), pl.4, f.17.

Middle Permian, Guadalupian, Word Fm. At 20 ft above base of unit 34 (140 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Parafusulina sullivanensis* Ross**

HOLOTYPE YPM 22013

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, tbl.(p.24), pl.5, f.17.

HYPOTYPE YPM 21991

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.4, f.9.

HYPOTYPE YPM 21992

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.4, f.12.

Middle Permian, Guadalupian, Word Fm. Lower 20 ft, in gray limestone, 20 ft above base of exposure, basal Word, limestone (that caps the Clay Slide) on ridge to N of road to Sullivan Ranch house, and 1.3 mi S55E of Sullivan Peak (BM 6125), Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22010

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.5, f.13.

HYPOTYPE YPM 22011

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.5, f.15.

Middle Permian, Guadalupian, Word Fm. At 5 ft above base of unit 37 (10 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22012

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, tbl.(p.24), pl.5, f.14.

HYPOTYPE YPM 22014

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, tbl.(p.24), pl.5, f.20.

HYPOTYPE YPM 22015

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.5, f.22.

Middle Permian, Guadalupian, Word Fm. Lower 20 ft, in gray limestone, 20 ft above base of exposure, basal Word, limestone (that caps the Clay Slide) on ridge to N of road to Sullivan Ranch house, and 1.3 mi S55E of Sullivan Peak (BM 6125), Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22016

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.5, f.18.

Middle Permian, Guadalupian, Word Fm. At 25 ft above base of unit 21 (218 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22017

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, tbl.(p.24), pl.5, f.19.

Middle Permian, Guadalupian, Word Fm. Basal Word, 10 ft below top of unit 3 (84 ft thick), section 4A, 1-mi-long S to N measured section starting from Old Word Ranch Road, and on to top of 1st Word limestone escarpment along Hess Ranch-Old Word Ranch fence line, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22018

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.23, pl.5, f.21.

Middle Permian, Guadalupian, Word Fm. At 40 ft below top of unit 42 (120 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to

elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 23537

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.78, f.2.[a]

HYPOTYPE YPM 23538

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.78, f.5.[a]

Middle Permian, Concha Limestone. About 450 ft above base of Concha, measured section, about 2 mi S of Apache Peak, central Whetstone Mountains, NE sec8T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

[a]Incorrect locality given in plate description; locality is 5-1, not 1-28.

***Parafusulina vidriensis* Ross**

HOLOTYPE YPM 21241

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.130, tbl.(p.130), pl.21, f.11.

HYPOTYPE YPM 21238

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.130, pl.21, f.5.

HYPOTYPE YPM 21239

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.130, pl.21, f.7.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 185 ft above base of unit 16 (205 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21240

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.130, tbl.(p.130), pl.21, f.10.

HYPOTYPE YPM 21242

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.130, tbl.(p.130), pl.21, f.13.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 53 ft above base of unit 16 (205 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina wildei* Ross**

HOLOTYPE YPM 21987

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, tbl.(p.25), pl.4, f.5.

Middle Permian, Guadalupian, Word Fm. Unit 25 (8 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21982

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, pl.4, f.1.

HYPOTYPE YPM 21983

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, tbl.(p.25), pl.4, f.4.

HYPOTYPE YPM 21984

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, tbl.(p.25), pl.4, f.7.

Middle Permian, Guadalupian, Word Fm. At 16 ft above base of unit 46 (75 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21985

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, tbl.(p.25), pl.4, f.2.

Middle Permian, Guadalupian, Word Fm. At 40 ft below top of unit 42 (120 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21986

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, pl.4, f.3.

Middle Permian, Guadalupian, Word Fm. Unit 2 (1 ft thick), section 5A, measured E to W from base of slope to Capitan Limestone at ridge crest, and 3 mi NW of hill 5420 of Iron Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21988

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, pl.4, f.6.

HYPOTYPE YPM 21989

Ross, C.A. 1963. Cushman Found. Foram. Res. Contrib. v.14, pt.1, n.259, p.24, pl.4, f.10.

Middle Permian, Guadalupian, Word Fm. At 16 ft above base of unit 46 (75 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

***Parafusulina wordensis* Dunbar and Skinner**

SYNTYPE YPM 21145

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261, pl.2, f.1.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.1.[a]

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE YPM 50046[b]

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261, pl.2, f.3.[a]

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.137, pl.11, f.7.

Dunbar, C.O. 1940. Foraminifera, p.148, pl.11, f.7.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.11, f.7.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE YPM 50047[b]

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261, pl.2, f.4.[a]

Dunbar, C.O. 1933. India Geol. Surv. Rec. v.66, pt.4, p.406, pl.22, f.1.

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. n.4, p.137, pl.11, f.6.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.42, f.11.[a]

Dunbar, C.O. 1940. Foraminifera, p.148, pl.11, f.6.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.11, f.6.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE? YPM 20885

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.2.[a]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE? YPM 20886

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.5.[a]

LECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.[d]

SYNTYPE? YPM 20887

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.7.[a]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54, pl.14, f.7.[e]

SYNTYPE? YPM 20888

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.8.[a]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE? YPM 25265

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.4.[a]

PARALECTOTYPE? Thompson, M.L. 1948. Univ.

Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE? YPM 25266A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690, pl.72, f.6.[a]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

SYNTYPE? YPM 25266B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.261.[f]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.690.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.54.

Middle Permian, Word Fm. Third limestone, section 17, top of hill S of junction of Road and Gilliland Canyons, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

See also *Fusulina elongata* Shumard.

[a]Cited as YPM 9922.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

[c]Cited by Dunbar and Skinner (1937) as a cotype [syntype], although it was not cited in the original description.

[d]YPM 20886 is designated the holotype [lectotype] on p.54, but though it was cited by Dunbar and Skinner (1937) on pl.72, f.5, as a cotype [syntype], it was not cited in the original description.

[e]YPM 20887 is cited as a paratype [paralectotype] on pl.14, f.7, but though it was cited by Dunbar and Skinner (1937) on pl.72, f.7, as a cotype [syntype], it was not cited in the original description.

[f]Slide is marked as a cotype [syntype], though it was not cited in the original description.

Paraschwagerina acuminata Dunbar and Skinner

HOLOTYPE YPM 14905

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, pl.54, f.1 (extreme left),2.

PARATYPE YPM 14905A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, pl.54, f.1 (uppermost).

PARATYPE YPM 14905B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, pl.54, f.1 (center).

PARATYPE YPM 14906A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, tbl.(p.671,#2), pl.54, f.3.

PARATYPE YPM 14906B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, tbl.(p.671,#5), pl.54, f.7.

PARATYPE YPM 14907A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, tbl.(p.671,#1), pl.54, f.5.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155.[a]

PARATYPE YPM 14907B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, tbl.(p.671,#4), pl.54, f.6.

PARATYPE YPM 14908

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.671, tbl.(p.671,#3), pl.54, f.4.

Early Permian, Neva Limestone. NW sec29T26NR6E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 20712

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155, pl.20, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 4 (9 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20713

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155, tbl.(p.156), pl.20, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 9 (6 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20714

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155, tbl.(p.156), pl.20, f.3.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 4 (9 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20715

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155, tbl.(p.156), pl.20, f.5.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 9 (6 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20778

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.155, tbl.(p.156).

Early Permian, Wolfcampian, Neal Ranch Fm. At 65 ft above base of unit 24 (85 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a]Incorrectly designated "lectotype"; Dunbar and Skinner (1937) had already designated a holotype.

***Paraschwagerina gigantea* (White)**

SYNTYPE? YPM 14999–15001

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666.[a]

Early Permian, Wolfcampian, Wolfcamp Fm. Bed 12?, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 14996A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, pl.55, f.1 (uppermost),6.

HYPOTYPE YPM 14996B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, pl.55, f.1 (lower left),2.

HYPOTYPE YPM 14996C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, pl.55, f.1 (lower right).

HYPOTYPE YPM 14996D

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.90, pl.11, f.3.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, pl.55, f.10.

Dunbar, C.O. 1940. Foraminifera, p.148, pl.44, f.12.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.44, f.12.

HYPOTYPE YPM 14996E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666.

HYPOTYPE YPM 14997A

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, pl.11, f.1.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, tbl.(p.667,#6), pl.55, f.9.

HYPOTYPE YPM 14997B

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89, pl.11, f.2.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, tbl.(p.667,#2), pl.55, f.8.

Dunbar, C.O. 1940. Foraminifera, p.148, pl.44, f.13.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.44, f.13.

Permian, Wolfcamp Fm. Bed 12, Brewster Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 14998

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.666, pl.55, f.7.

Early Permian, Wolfcampian, Wolfcamp Fm. Bed 12?, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 20727

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.157, tbl.(p.157), pl.21, f.6.

Early Permian, Wolfcampian, Neal Ranch Fm. Upper inch of unit 12 (2.5 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20728

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.157, pl.21, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 15 (10 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20729

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.157, tbl.(p.157), pl.22, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 13 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20730

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.157, tbl.(p.157), pl.22, f.5.

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 20 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a]These slides are marked as cotypes [syntypes], although they were not cited in the original description.

***Paraschwagerina kansasensis* (Beede and Kniker)**

HYPOTYPE YPM 14903A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, tbl.(p.669,#2), pl.54, f.10.

HYPOTYPE YPM 14903B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, tbl.(p.669,#6), pl.54, f.11.

Early Permian, Neva Limestone. NW sec29T26NR6E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 14904

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89, pl.11, f.5.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, tbl.(p.669,#4), pl.54, f.13.

HYPOTYPE YPM 14904A

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668.

Permian, Wolfcamp Fm. Bed 9 of Wolfcamp, Brewster Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 14909

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, pl.54, f.12.

HYPOTYPE YPM 14910

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, pl.54, f.9, probably f.1 (extreme right).

HYPOTYPE YPM 14910A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, pl.54, f.1 (lowermost).

HYPOTYPE YPM 15022

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.668, pl.54, f.8.

Early Permian, Neva Limestone. NE sec28T26NR6E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 15029

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89, pl.11, f.4.[b]

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

[a]Incorrectly cited as YPM 15029 in the explanation for pl.11.

[b]Incorrectly cited as YPM 14904 in the explanation for pl.11.

***Paraschwagerina plena* Ross**

HOLOTYPE YPM 20722

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.310, tbl.(p.311), pl.4, f.8.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.158, tbl.(p.158), pl.21, f.1.

Early Permian, Lenox Hills Fm. Lower Leonard and upper Lenox Hills, section 9, just W of Sullivan Ranch Road S side of the Lenox Hills, about 3.25 mi N 10° E of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20723

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.310, tbl.(p.311), pl.4, f.4.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.158, tbl.(p.158), pl.21, f.2.

HYPOTYPE YPM 20724

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.158, pl.21, f.3.

HYPOTYPE YPM 20725

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9,

p.310, tbl.(p.311), pl.4, f.7.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.158, tbl.(p.158), pl.21, f.4.

HYPOTYPE YPM 20726

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.310, pl.4, f.6.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.158, pl.21, f.5.

Early Permian, Leonardian, Leonard Fm. Unit 1 (34 ft thick), section 9, just W of Sullivan Ranch Road S side of the Lenox Hills, about 3.25 mi N 10° E of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Paraschwagerina shuleri* Williams**

HOLOTYPE YPM 22465

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.35, tbl.2, tf.3, pl.2, f.1.

PARATYPE YPM 22466

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.35, tbl.2, pl.2, f.2.

PARATYPE YPM 22467

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.35, pl.2, f.3.

PARATYPE YPM 22468

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.35, tbl.2, pl.2, f.4.

PARATYPE YPM 22469

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.35, tbl.2, pl.2, f.5.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 5, 10, 25 and 45 ft above base of unit 17, composite measured section (section 8); units 1-13 SSW to NNE 0.25-mi-long section starting at base 0.25 mi SSW of Juan Peak and ending at Juan Peak; units 14-17 SW to NE 0.15-mi-long section starting 0.4 mi NNW of Juan Peak and ending on ridge top 0.5 mi N of Juan Peak, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Paraschwagerina* sp. A**

HYPOTYPE YPM 21843

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.8, tbl.(p.9), pl.2, f.6.

Early Permian, Leonardian, Leonard Fm. Top of NE-most knoll of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Paraschwagerina yabei* (Staff)**

HYPOTYPE YPM 21146A

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.135, pl.11, f.2.

Dunbar, C.O. 1940. Foraminifera, p.148, pl.11, f.2.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.11, f.2.

Late Permian, Sosio Limestone. Burgio Pass, near Palermo, Sicily, Italy.

***Plectofusulina* cf. *P. franklinensis* Stewart**

HYPOTYPE YPM 23450

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.625, tf.5(2, bed 2-4f), pl.75, f.18,19.

Pennsylvanian, Horquilla Limestone. At 340 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Plectofusulina portalensis* Ross and Sabins**

HOLOTYPE YPM 22347

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, tbl.3, pl.23, f.18,24.

PARATYPE YPM 22348

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.19.

PARATYPE YPM 22349

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.20.

PARATYPE YPM 22350

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.21.

PARATYPE YPM 22351

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.22.

PARATYPE YPM 22352

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.23, f.23.

Pennsylvanian, Horquilla Limestone. At 380 ft above base of Horquilla, along measured section, from base up,

starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

***Plectofusulina*? sp.**

HYPOTYPE YPM 23421

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.21, f.15.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Polydiexodina capitanensis* Dunbar and Skinner**

SYNTYPE YPM 9923A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264, pl.3, f.7,11.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.1 (lower),9.

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.15, f.2.[a]

LECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55, pl.15, f.5.

SYNTYPE YPM 9923B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264, pl.3, f.8.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.1 (upper).

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923C

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264, tbl.(p.265), pl.3, f.9.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, tbl.(p.694,#6), pl.80, f.3.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923D

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923E

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264, pl.3, f.10.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923F

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923G

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264, tbl.(p.265).

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, tbl.(p.694,#5), pl.80, f.2.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923H

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.8.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE YPM 9923J

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

Middle Permian, Guadalupian, Capitan Limestone. Capitan dolomite [Capitan Limestone] at a point 50 ft

below top of El Capitan Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE? YPM 17199

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.11.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

Middle Permian, Guadalupian. At 50 ft below top of El Capitan Peak, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

SYNTYPE? YPM 20877A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.4.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55, pl.15, f.3.

SYNTYPE? YPM 20877B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE? YPM 20878A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.[c]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.5.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55, pl.15, f.4.

SYNTYPE? YPM 20878B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

SYNTYPE? YPM 20879

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.6,7.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

Middle Permian, Guadalupian, Capitan Limestone. Near top of El Capitan Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE? YPM 20880

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.264.[d]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.693, pl.80, f.10.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.55.

Middle Permian, Guadalupian, Capitan Limestone. Capitan dolomite [Capitan Limestone] at a point 50 ft below top of El Capitan Peak, Culberson Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 16576

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.15, f.1.

HYPOTYPE YPM 16577

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.16, f.4.

HYPOTYPE YPM 16578A

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.16, f.2.

HYPOTYPE YPM 16578B

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.16, f.3.

HYPOTYPE YPM 16579

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.15, f.3.

HYPOTYPE YPM 16580

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.15, f.4.

HYPOTYPE YPM 16581

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, pl.16, f.1.

HYPOTYPE YPM 16582

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.45, tbl.(p.46,#4), pl.15, f.5.

Middle Permian. Beds 5 and 7 of Difunta section, concretionary shale, collection made along strike from Cerro Wencelao on S to 300 m W of El Indio on N, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

[a]Cited as holotype, probably incorrectly.

[b]This slide is marked as a cotype [syntype], although it was not cited in the original description.

[c]Cited as a paratype [paralectotype] by Thompson (1948), although it was not referred to in the original description.

***Polydiexodina mexicana* Dunbar**

HOLOTYPE YPM 26329

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.47, tbl.(p.47,#1), pl.16, f.8.[a]

PARATYPE YPM 16592

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.47, tbl.(p.47,#2), pl.16, f.9.

PARATYPE YPM 26330

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.47, tbl.(p.47,#3), pl.16, f.7.[b]

Middle Permian. Bed 2 of Difunta section, limestone lenses 25 m E of El Indio, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

[a]Incorrectly cited as YPM 16583 in the explanation for pl.16.

[b]Incorrectly cited as YPM 16584 in the explanation for pl.16.

***Polydiexodina? rotundata* Dunbar and Skinner**

HOLOTYPE YPM 17204A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.697, tbl.(p.698,#1), pl.81, f.2.

=*Skinnerina typicalis* Ross. HYPOTYPE. Ross, C.A. 1964. J. Paleont. v.38, n.2, p.311.

PARATYPE YPM 17204B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.697, tbl.(p.698,#2), pl.81, f.1.

=*Skinnerina typicalis* Ross. HYPOTYPE. Ross, C.A. 1964. J. Paleont. v.38, n.2, p.311.

PARATYPE YPM 17204C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.697, tbl.(p.698,#3).

=*Skinnerina typicalis* Ross. HYPOTYPE. Ross, C.A. 1964. J. Paleont. v.38, n.2, p.311.

Middle Permian, Guadalupian. Top of ridge 0.75 mi W of Jones Ranch house, W flank of Apache Mountians, Culberson Co., Texas, USA. Collector: Skinner, J.W. and Maley, V.C.

***Polydiexodina shumardi* Dunbar and Skinner**

SYNTYPE YPM 20881

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267, pl.3, f.3.

SYNTYPE YPM 20882

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267, pl.3, f.4.

SYNTYPE YPM 20883

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267, tbl.(p.268,A), pl.3, f.5,6.

SYNTYPE YPM 25670

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267, pl.3, f.1,2 (central third).

SYNTYPE YPM 25671

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267, pl.3, f.1,2 (left third and right third).

SYNTYPE? YPM 20884

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.6.

SYNTYPE? YPM 50048[b]

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.267.[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.10.

Permian, Guadalupian, Delaware Mountain Grp. From a bed 117 ft above the base of the Delaware Mountain formation in the section along the old Carlsbad-Van Horn road about 3 mi E of the point where it emerges from the canyon at the edge of Salt Flat, at the S end of

the Delaware Mountains, Culberson Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 16567

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.47, pl.16, f.5.

HYPOTYPE YPM 16568

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.47, pl.16, f.6.

Late Permian. Bed 2 of Malascachas section, limestone layer 2000 m S47W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 25269

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.4.

HYPOTYPE YPM 25270

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.7.

HYPOTYPE YPM 25271

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.8.

Middle Permian, Guadalupian, Delaware Mountain Grp. Zone of transition from Delaware Mountain Sandstone to Capitan Limestone, head of Rader Ridge, 1.5 mi N20E of Frijole Post Office, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 25272

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.9.

Middle Permian, Guadalupian, Delaware Mountain Grp. S side of Pine Spring Canyon, 1 mi NE of Guadalupe Peak, near base of Capitan Limestone, [1.3 mi N50E of El Capitan], Culberson Co., Texas, USA. Collector: Fountain, H.C., 1934.

HYPOTYPE YPM 25273

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.81, f.3.

Middle Permian, Guadalupian, Delaware Mountain Grp. Zone of transition from Delaware Mountain Sandstone to Capitan Limestone, head of Rader Ridge, 1.5 mi N20E of Frijole Post Office, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 25669A

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.137, pl.11, f.12.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.695, pl.42, f.5, pl.81, f.5.

Dunbar, C.O. 1940. Foraminifera, p.149, pl.11, f.12.

Dunbar, C.O. 1948. Foraminifera, p.162, pl.11, f.12.

HYPOTYPE YPM 25669B

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.137, pl.11, f.9.

Dunbar, C.O. 1940. Foraminifera, p.149, pl.11, f.9.

Dunbar, C.O. 1948. Foraminifera, p.162, pl.11, f.9.

Middle Permian, Guadalupian, Delaware Mountain Grp. At 820 ft below top of section measured up S face of Altuda Mountain, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 25672

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.137, pl.11, f.10.

Dunbar, C.O. 1940. Foraminifera, p.149, pl.11, f.10.

Dunbar, C.O. 1948. Foraminifera, p.162, pl.11, f.10.

Permian, Guadalupian, Delaware Mountain Grp. From a bed 163 ft above the base of the Delaware Mountain formation in the section along the old Carlsbad-Van Horn road about 3 mi E of the point where it emerges from the canyon at the edge of Salt Flat, at the S end of the Delaware Mountains, Culberson Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 50040[b]

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, pl.11, f.11.

Dunbar, C.O. 1940. Foraminifera, pl.11, f.11.

Dunbar, C.O. 1948. Foraminifera, pl.11, f.11.

No locality information available.

[a]Cited by Dunbar and Skinner (1937) as a cotype [syntype], although it was not cited in the original description.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

Profusulinella copiosa Thompson

HYPOTYPE YPM 23420

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.4, pl.21, f.14.

Pennsylvanian, Horquilla Limestone. At 127 ft above base

of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Profusulinella* sp. A**

HYPOTYPE YPM 22353

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.4, pl.23, f.25,26.

Pennsylvanian, Horquilla Limestone. At 117 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Profusulinella walnutensis* Ross and Sabins**

HOLOTYPE YPM 23415

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tf.4(1, bed 0), pl.21, f.9.

PARATYPE YPM 23416

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.4, pl.21, f.10.

PARATYPE YPM 23417

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.21, f.11.

PARATYPE YPM 23418

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.21, f.12.

PARATYPE YPM 23419

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.4, pl.21, f.13.

Pennsylvanian, Horquilla Limestone. At 40 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Profusulinella whitetailensis* Ross and Sabins**

HOLOTYPE YPM 22029

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.5, tf.5(8, bed 7), pl.22, f.3.

PARATYPE YPM 22027

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.5, pl.22, f.1.

PARATYPE YPM 22028

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.22, f.2.

PARATYPE YPM 22030

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.22, f.4.

PARATYPE YPM 22031

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.22, f.5.

PARATYPE YPM 22032

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.21, f.30, pl.22, f.6.

PARATYPE YPM 22033

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, pl.22, f.7.

Pennsylvanian, Horquilla Limestone. At 300 ft above base of Horquilla, along 0.1-mi-long NNE to SSW measured section, from ridge crest 0.5 mi W of E end of Blue Mountain, E side of Chiricahua Mountains, CENTER N SW SW sec20T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Pseudofusulina douvillei* (Colani)**

HYPOTYPE YPM 14971C

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.3c.

Permian. Near Chiang Mia, Thailand. Collector: Heim, A.

***Pseudofusulina huecoensis* Dunbar and Skinner**

SYNTYPE YPM 9919A[a]

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257, pl.1, f.3 (upper left).

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, pl.57, f.1 (upper left).

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4.

SYNTYPE YPM 9919B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci.

v.222, p.257, pl.1, f.3 (upper right).

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, pl.57, f.1 (upper right),4.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4.

SYNTYPE YPM 9919C

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257, pl.1, f.3 (lower left).

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, pl.57, f.1 (lower left),3.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4.

SYNTYPE YPM 9919D

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257, pl.1, f.3 (lower right),6a,6b.

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.136, pl.10, f.21,22.

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.534,627, pl.42, f.4, pl.57, f.1 (lower right),2,6.

=*Schwagerina huecoensis.* Dunbar, C.O. 1940. Foraminifera, p.145, pl.10, f.21,22.

=*Schwagerina huecoensis.* Dunbar, C.O. 1948. Foraminifera, p.157, pl.10, f.21,22.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52, pl.12, f.6.

PARALECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4.

SYNTYPE YPM 9919E

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257, pl.1, f.4.

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, tbl.(p.628,#5), pl.57, f.8.

PARALECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52, pl.12, f.5.

PARALECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4, pl.1, f.5.

SYNTYPE YPM 9919F

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257, pl.1, f.5.

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.136, pl.10, f.23.

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, tbl.(p.628,#1), pl.57, f.9.

=*Schwagerina huecoensis.* Dunbar, C.O. 1940. Foraminifera, p.145, pl.10, f.23.

=*Schwagerina huecoensis.* Dunbar, C.O. 1948. Foraminifera, p.157, pl.10, f.23.

LECTOTYPE. Thompson, M.L. 1948. Univ. Kans. Paleont. Contri. Protozoa, Art.1, p.52, pl.12, f.7.

LECTOTYPE. Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4, pl.1, f.1, pl.2, f.1-3.

SYNTYPE? YPM 15085

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257.[b]

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, tbl.(p.628,#2), pl.57, f.5.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE? Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4, pl.1, f.4.

SYNTYPE? YPM 15086

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257.[b]

=*Schwagerina huecoensis.* Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.627, tbl.(p.628,#4), pl.57, f.7.

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE? Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, pl.1, f.6.

SYNTYPE? YPM 15086A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257.[c]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

=*Schwagerina huecoensis.* PARALECTOTYPE? Skinner, J.W. and G.L. Wilde. 1965. Univ. Kans. Paleont. Contrib. Protozoa, Art.6, p.59, pl.13, f.4,5.

PARALECTOTYPE? Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4, pl.1, f.2, pl.3, f.1-3, pl.4, f.1,2.

SYNTYPE? YPM 24855

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, p.257.[c]

PARALECTOTYPE? Thompson, M.L. 1948. Univ. Kans. Paleont. Contrib. Protozoa, Art.1, p.52.

PARALECTOTYPE? Skinner, J.W. and G.L. Wilde. 1966. Univ. Kans. Paleont. Contrib. Pap. n.13, p.4, pl.1, f.3, pl.4, f.3.

Early Permian, Wolfcampian, Hueco Canyon Fm. Lowest Hueco Canyon, W of hill 5345, 2 mi SE of Hueco Tanks, S of Hueco Tanks Road, Hueco Mountains, El Paso Co., Texas, USA. Collector: King, R.E.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

[b]Cited by Dunbar and Skinner (1937) as a cotype [syntype], although it was not cited in the original description.

[c]Cited by Skinner and Wilde (1965) as a paratype [paralectotype], although it was not cited in the original description.

***Pseudofusulina nelsoni opima* Thompson**
See *Schwagerina nelsoni* Dunbar and Skinner.

***Pseudoschwagerina beedei* Dunbar and Skinner**

SYNTYPE YPM 14901A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.656, pl.49, f.2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146.

SYNTYPE YPM 14901B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.656, pl.49, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146.

SYNTYPE YPM 14902A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.656, pl.49, f.9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146.

PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 14902B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.656, pl.49, f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146.

PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 14902C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.656, pl.49, f.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 4.5 mi S of Hueco Tanks [Powwow Ridge], El Paso Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 20739

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, tbl.(p.146), pl.27, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Upper 3 ft of unit 32 (53 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20743

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, tbl.(p.146), pl.27, f.5.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (1.5 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20745

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, tbl.(p.146), pl.27, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 25 (27 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up

the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22470

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, pl.3, f.1.

HYPOTYPE YPM 22471

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, tbl.3, pl.3, f.2.

HYPOTYPE YPM 22472

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, pl.3, f.3.

HYPOTYPE YPM 22473

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, pl.3, f.4.

HYPOTYPE YPM 22474

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, tbl.3, tf.3, pl.3, f.5.

HYPOTYPE YPM 22475

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, pl.3, f.6.

HYPOTYPE YPM 22476

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, pl.3, f.7.

HYPOTYPE YPM 22477

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.37, tbl.3, pl.3, f.8.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, saddle on E-W ridge on N side of Powwow Canyon, and 0.9 mi ENE of Powwow Tank, and 0.4 mi WNW of hill 5460, central Hueco Mountains, Helms West Well 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Pseudoschwagerina convexa Thompson

HYPOTYPE YPM 21247

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.147, pl.28, f.2.

HYPOTYPE YPM 21248

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.147, tbl.(p.148), pl.28, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 18 (120 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22478

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.38, tbl.4, pl.4, f.1.

HYPOTYPE YPM 22479

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.38, tbl.4, pl.4, f.2.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. Unit 5, SW to NE 0.45-mi-long measured section (section 2) starting at base in canyon 0.3 mi SW of summit of Alacran Mountain, and ending at summit of Alacran Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22480

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.38, tbl.4, pl.4, f.3.

HYPOTYPE YPM 22481

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.38, tbl.4, pl.4, f.4.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. Top of unit 11, SW to NE 0.45-mi-long measured section (section 2) starting at base in canyon 0.3 mi SW of summit of Alacran Mountain, and ending at summit of Alacran Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Pseudoschwagerina d'orbignyi Dunbar and Newell

HOLOTYPE YPM 21008

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#4), pl.6, f.6.

PARATYPE YPM 21009

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#1), pl.6, f.2.

PARATYPE YPM 21011

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#3), pl.6, f.5.

PARATYPE YPM 21012

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, pl.6, f.3.

PARATYPE YPM 21013

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#2), pl.6, f.4.

PARATYPE YPM 21014

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#6), pl.6, f.9.

Early Permian, Wolfcampian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 24366

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, pl.5, f.1.[a]

PARATYPE YPM 24367

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, pl.6, f.1.

HYPOTYPE YPM 21010

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, tbl.(p.474,#5), pl.6, f.8.

HYPOTYPE YPM 21015

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, pl.6, f.7.

Early Permian, Wolfcampian. Carpacayma, Charcas, Potosi, Bolivia. Collector: Kozlowski, R.

[a]YPM 24366 is a slab containing specimens of both *P. kozlowskii* and *P. d'orbignyi.*

***Pseudoschwagerina geiseri* Williams**

HOLOTYPE YPM 22482

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.40, tbl.5, pl.5, f.1.

PARATYPE YPM 22483

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.40, pl.5, f.2.

PARATYPE YPM 22484

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.40, tbl.5, pl.5, f.3.

PARATYPE YPM 22588

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.40, tbl.5.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float along Rimrock, 0.5 mi WNW of hill 5548, and 1.4 mi NW of Juan Peak, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Pseudoschwagerina gerontica* Dunbar and Skinner**

HOLOTYPE YPM 14926

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, tbl.(p.661,#2), pl.51, f.1 (middle left),2,5.[a]

Williams, T.E. 1966. J. Paleont. v.40, n.5, p.1144.

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

PARATYPE YPM 14927

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (lower right),4.

Early Permian, Wolfcampian, Hueco Limestone. SE of Vinton, El Paso Co., Texas, USA. Collector: Nelson, L.A.

PARATYPE YPM 21162A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (lower left).

PARATYPE YPM 21162B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (lower center).

Early Permian, Wolfcampian, Hueco Limestone. About 700 ft above base of section of Hueco Limestone exposed in this outlier, Vinton Canyon, near S end of ridge 1 mi W of the main Franklin range and 4 mi E and 1.75 mi N of Vinton, El Paso Co., Texas, USA. Collector: Nelson, L.A.

PARATYPE YPM 21163A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (upper left).

PARATYPE YPM 21163B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (upper center).

PARATYPE YPM 21163C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (center).

PARATYPE YPM 21163D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (upper right).

PARATYPE YPM 21163E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660, pl.51, f.1 (middle right).

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

PARATYPE? YPM 20893, 20894

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.660.[b]

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. SE of Vinton, El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 22485

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.41, tbl.6, pl.6, f.1.

HYPOTYPE YPM 22486

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.41, tbl.6, pl.6, f.2.

HYPOTYPE YPM 22487

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.41, tbl.6, pl.6, f.3.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. Float from first limestone above Deer Mountain, N-facing escarpment S of and above road leading out of E end of Hueco Canyon NE to Menzies Ranch, and 0.35 mi NNE of Goat Tub Tank, and 1 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hueco Mountains 15 Quad., CENTER W W W sec15T26SR10E, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22589

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.41, tbl.6.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float along Rimrock, 0.5 mi WNW of hill 5548, and 1.4 mi NW of Juan Peak, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]Not pl.52, f.8 (see *Pseudoschwagerina texana*, YPM 25586).

[b]This slide is marked as a paratype, although it was not cited in the original description.

Pseudoschwagerina kozlowskii Dunbar and Newell

HOLOTYPE YPM 20996

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, tbl.(p.471,#1,), pl.5, f.4.

Early Permian, Wolfcampian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 17442

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, pl.5, f.5.

Early Permian, Wolfcampian. Quebrada Quishuarani, NE of Munani, Peru. Collector: Newell, N.D.

PARATYPE YPM 20997

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, tbl.(p.471,#5,), pl.5, f.7.

PARATYPE YPM 20998

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, tbl.(p.471,#2,), pl.5, f.2.

PARATYPE YPM 20999

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, tbl.(p.471,#3,), pl.5, f.3.

Early Permian, Wolfcampian. Apillapampa, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 24366

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.472, pl.5, f.1.[a]

Early Permian, Wolfcampian. Carpacayma, Charcas, Potosi, Bolivia. Collector: Kozlowski, R.

See also *Pseudoschwagerina* cf. *P. uddeni* (Beede and Kniker).

[a]YPM 24366 is a slab containing specimens of both *P. kozlowskii* and *P. d'orbignyi.*

Pseudoschwagerina parabeedei Ross

HOLOTYPE YPM 20740

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, tf.10, pl.27, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 5 (3 ft thick), section 17, S side of hill 5816, between top of intrusion and point three-quarters of the way up to summit, Hess Ranch horst, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20741

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, tbl.(p.148), pl.27, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 3 (14 ft thick), section 8, SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co.,

Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20742

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.148, pl.27, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 5 (3 ft thick), section 17, S side of hill 5816, between top of intrusion and point three-quarters of the way up to summit, Hess Ranch horst, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20744

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.148, pl.27, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 3 (14 ft thick), section 8, SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Pseudoschwagerina parabeedei*? Ross**

HYPOTYPE YPM 20746

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.146, pl.27, f.8.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 9 (1 ft thick), section 17, S side of hill 5816, between top of intrusion and point three-quarters of the way up to summit, Hess Ranch horst, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Pseudoschwagerina portalensis* Sabins and Ross**

HOLOTYPE YPM 21945

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, tbl.23, tf.4(9-21, right), pl.40, f.12.

PARATYPE? YPM 21941

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, tbl.23, pl.40, f.8.[a]

PARATYPE? YPM 21942

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, pl.40, f.9.[a]

PARATYPE? YPM 21943

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, pl.40, f.10.[a]

PARATYPE? YPM 21944

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, tbl.23, tf.4(9-21,left), pl.40, f.11.[a]

PARATYPE? YPM 21946

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.357, tbl.23, pl.40, f.13.[a]

Early Permian, Wolfcampian, Earp Fm. At 1640 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Cited as syntype, although a holotype was designated.

***Pseudoschwagerina robusta* (Meek)**

HYPOTYPE YPM 20747

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.149, pl.24, f.1.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 16 (55 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20748

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.149,150, tbl.(p.150), pl.24, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. At 35 ft above base of unit 14 (45 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20749

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.149,150, tbl.(p.150), tf.10, pl.24, f.3.

HYPOTYPE YPM 20751

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150, tbl.(p.150), pl.25, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 16 (55 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Pseudoschwagerina* sp.**

HYPOTYPE YPM 13125A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, pl.2, f.5,6.

Permian. Kurkurtuk Valley, Tianschan Mountains, NW China. Collector: Broili, F.

***Pseudoschwagerina* sp. A**

HYPOTYPE YPM 21938

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.359, tf.4 (9-25, left), pl.40, f.5.

HYPOTYPE YPM 21939

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.359, tf.4 (9-25, right), pl.40, f.6.

HYPOTYPE YPM 21940

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.359, tf.4 (9-25, middle), pl.40, f.7.

Early Permian, Wolfcampian, Earp Fm. At 2170 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW down slope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Pseudoschwagerina* n. sp.**

HYPOTYPE YPM 26335C

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.9.

HYPOTYPE YPM 26335E

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.8.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Pseudoschwagerina stanislavi* Dunbar**

HOLOTYPE YPM 21122

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.3.

PARATYPE YPM 21123A

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.1 (upper right),5.

PARATYPE YPM 21123B

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.1 (lower center),6.

PARATYPE YPM 21123C

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.1 (upper left).

PARATYPE YPM 21123D

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.1 (lower left).

PARATYPE YPM 21123E

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.1 (lower right).

PARATYPE YPM 21124

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.2.

PARATYPE YPM 21125

Dunbar, C.O. 1953. Am. J. Sci. v.251, p.811, pl.2, f.4.

Early Permian, Hueco Limestone. Above Kriz lens, Culberson Co., Texas, USA. Collector: Kriz, S.J.

***Pseudoschwagerina texana* Dunbar and Skinner**

SYNTYPE YPM 14922

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 14922A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.*
PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 1.5 mi SW of Hueco Tanks, El Paso Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15168A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.1 (upper left).[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 15168B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.2, probably f.1 (lower left).[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 15168C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.1 (uppermost).[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 15168D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.1 (middle right),3.[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 15168E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.1 (lower right).[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE YPM 15168F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.1 (lower center).[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 14, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15169A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.4.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* LECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 15169B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 15169C, 15169D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 1.5 mi SW of Hueco Tanks, El Paso Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15170

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 15170A, 15170B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 12, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 25586

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.52, f.8.[b]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

Early Permian, Wolfcampian, Wolfcamp Fm. Gaptank, Glass Mountains, Brewster Co., Texas, USA. Collector: Schuchert, C.

SYNTYPE? YPM 20891A, 20892A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.[c]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana.* PARALECTOTYPE? Kaesler, R.L. 1970. Proc. N. Am.

Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE? YPM 20891B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.[c]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

SYNTYPE? YPM 20892B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.[c]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

Early Permian, Wolfcampian, Hueco Limestone. Near Marble Canyon, Hudspeth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 20752

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150, tbl.(p.151), pl.25, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 13 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20753

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150, tbl.(p.151), pl.25, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 11 (4 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20756

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150, tbl.(p.151), pl.25, f.6.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 29 (3.5 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22488

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.43, tbl.7, tf.3, pl.7, f.1.

HYPOTYPE YPM 22489

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.43, tbl.7, pl.7, f.2.

HYPOTYPE YPM 22490

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.43, tbl.7, pl.7, f.3.

HYPOTYPE YPM 22491

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.43, tbl.7, pl.7, f.4.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, unit 8, W to E 2.6-mi-long measured section (section 7) along S side of Hueco Canyon starting 0.25 mi NW of hill 5360, and 1.7 mi E of Escontrias Ranch headquarters at Hueco Tanks, and ending 0.4 mi SW of Goat Tub Tank, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

See also *Schwagerina* cf. *S. fusulinoides* Schellwien.

[a]Incorrectly cited as YPM 16168 in the explanation for pl.52.

[b]Incorrectly cited as YPM 14926 in the explanation for pl.52.

[c]This slide is marked as a cotype [syntype], although it was not cited in the original description.

Pseudoschwagerina cf. *P. texana* Dunbar and Skinner

HYPOTYPE YPM 20754

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.151, pl.25, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 15 (10 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20755

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.151, tbl.(p.151), pl.25, f.5.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

Pseudoschwagerina texana texana Dunbar and Skinner

HYPOTYPE YPM 25353, 25355

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Wolfcamp Fm. Section

24, bed 14, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 25356

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcamp Fm. At 1 mi NW of "Sta. 3, sheet 2," Texas, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 25357

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcamp Fm. About 200 ft below base of massive Hess Conglomerate, Brewster Co., Texas, USA. Collector: Roth, R.I.

See also *Pseudoschwagerina texana* Dunbar and Skinner and *Schwagerina* cf. *S. fusulinoides* Schellwien and *Pseudoschwagerina texana ultima* Dunbar and Skinner.

***Pseudoschwagerina texana ultima* Dunbar and Skinner**

SYNTYPE YPM 14923

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, tbl.(p.665-666,#1), pl.53, f.6.[a]

=*Pseudoschwagerina texana ultimata* Dunbar and Skinner. HYPOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

SYNTYPE YPM 14923A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 1.5 mi SW of Hueco Tanks, El Paso Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 14925A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.665, pl.53, f.7.

SYNTYPE YPM 14925B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.665.

=*Pseudoschwagerina texana texana* Dunbar and Skinner. HYPOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Near Marble Canyon, Hudspeth Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE YPM 15171A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.53, f.10 (uppermost).

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 14, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

See also *Schwagerina fusulinoides* Schellwien.

[a]Not pl.53, f.7 (see *Pseudoschwagerina texana ultima*, YPM 14925A).

***Pseudoschwagerina tumidosa* Ross**

HYPOTYPE YPM 20757

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.309, tbl.(p.310), pl.3, f.1.[a]

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.152, tbl.(p.152-153), pl.26, f.1.

Early Permian, Wolfcampian, Lenox Hills Fm. Near top of unit 4 (16 ft thick), section 14, measured S to N along ridge at entrance to Hess Canyon starting 0.3 mi N of the Hess Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20758

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.309, tbl.(p.310).

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.152, tbl.(p.152-153), pl.26, f.2.

HYPOTYPE YPM 20759

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.309, tbl.(p.310), pl.3, f.3.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.152, tbl.(p.152-153), pl.26, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Biohermal limestone, 0.4 mi S60W of hill 5159 at elevation 4600 ft, and 1200 ft S30W of section 3, which is measured up the lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20761

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.309, tbl.(p.310), pl.3, f.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.152, tbl.(p.152-153), pl.26, f.5.

Early Permian, Wolfcampian, Lenox Hills Fm. Near top of unit 4 (16 ft thick), section 14, measured S to N along ridge at entrance to Hess Canyon starting 0.3 mi

N of the Hess Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

See also *Pseudoschwagerina tumidosus* Ross.

[a]Incorrectly cited as YPM 20751 in the explanation for pl.3.

***Pseudoschwagerina tumidosus* Ross**

HOLOTYPE YPM 20760

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.309, tbl.(p.310), pl.3, f.8.

=*Pseudoschwagerina tumidosa* Ross. HOLOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.152, tbl.(p.152), pl.26, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. Biohermal limestone, 0.4 mi S60W of hill 5159 at elevation 4600 ft, and 1200 ft S30W of section 3, which is measured up the lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Pseudoschwagerina uddeni* (Beede and Kniker)**

HYPOTYPE YPM 11249D

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.[a]

HYPOTYPE YPM 14914A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (upper left).

HYPOTYPE YPM 14914B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (middle left).

HYPOTYPE YPM 14914C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (upper center).

HYPOTYPE YPM 14914D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (center).

HYPOTYPE YPM 14914E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (lower center).

HYPOTYPE YPM 14914G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (middle right).

HYPOTYPE YPM 14914H

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1 (lower right).

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 12, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 14915A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (upper left),3.

HYPOTYPE YPM 14915B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (lower left).

HYPOTYPE YPM 14915C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (uppermost).

HYPOTYPE YPM 14915D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (center).

HYPOTYPE YPM 14915E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (lower center).

HYPOTYPE YPM 14915F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (upper right),4.

HYPOTYPE YPM 14915G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.2 (lower right).

Early Permian, Wolfcampian, Hueco Limestone. About 700 ft above base of section of Hueco exposed in this outlier, Vinton Canyon, near S end of ridge 1 mi W of the main Franklin range and 4 mi E and 1.75 mi N of Vinton, El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 14916

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, tbl.(p.659,660,#4), pl.50, f.8,10.[b]

HYPOTYPE YPM 14916A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658.

HYPOTYPE YPM 14916B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658.

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 1.5 mi SW of Hueco Tanks, El Paso Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 14917A

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89, pl.11, f.6.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, tbl.(p.660,#5), pl.50, f.5.

Dunbar, C.O. 1940. Foraminifera, p.147, pl.44, f.15.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.44, f.15.

HYPOTYPE YPM 14917B

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, tbl.(p.660,#1), pl.50, f.9.

Dunbar, C.O. 1940. Foraminifera, p.147, pl.44, f.16.

Dunbar, C.O. 1948. Foraminifera, p.161, pl.44, f.16.

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, 1.2 mi SSW of hill 5345, El Paso quadrangle, Hueco Mountains, El Paso Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 14918

Dunbar, C.O. and J.W. Skinner. 1936. J. Paleont. v.10, n.2, p.89, pl.11, f.7.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, tbl.(p.660,#2), pl.50, f.6.

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone. Near Marble Canyon, Hudspeth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 17177A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.53, f.8.

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Fort Riley Limestone. At 1 mi E and 2 mi N of Silverdale, Cowley Co., Kansas, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 17443

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.7, f.1.

HYPOTYPE YPM 17444

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.7, f.3.

HYPOTYPE YPM 17445

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.7, f.5.

HYPOTYPE YPM 17446

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.7, f.2.

HYPOTYPE YPM 17447

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.7, f.4.

Early Permian, Wolfcampian. Vilcanota Canyon, 3 km NE of Hacienda Chuquecahuana, Department of Cuzco, 45 km NW of Sicuani, on the Southern Railway of Peru. Collector: Newell, N.D.

HYPOTYPE YPM 20735

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, tbl.(p.154), tf.10, pl.23, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Limestone, 2.1 mi N47W of Decie Ranch house, and 540 ft S30E of base of section 7, which begins at base of Lenox Hills escarpment 2 mi N45W of Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20736

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, pl.23, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 15 (10 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20737

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, pl.23, f.3.

Early Permian, Wolfcampian, Neal Ranch Fm. Limestone, 2.1 mi N47W of Decie Ranch house, and

540 ft S30E of base of section 7, which begins at base of Lenox Hills escarpment 2 mi N45W of Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20738

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, tbl.(p.154), pl.23, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 13 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20750

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, tbl.(p.154), pl.24, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 8 (4 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20779

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, tbl.(p.154).

Early Permian, Wolfcampian, Neal Ranch Fm. At 65 ft above base of unit 24 (85 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20780

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.153, tbl.(p.154).

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 20 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21934

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.358, tbl.24, tf.4 (9-15, left), pl.40, f.1.

HYPOTYPE YPM 21935

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.358, tbl.24, pl.40, f.2.

HYPOTYPE YPM 21936

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.358, pl.40, f.3.

HYPOTYPE YPM 21937

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.358, tbl.24, tf.4 (9-15, right), pl.40, f.4.

Early Permian, Wolfcampian, Earp Fm. At 970 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 22492

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45, tbl.8, pl.8, f.1.

HYPOTYPE YPM 22493

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45, tbl.8, pl.8, f.2.

HYPOTYPE YPM 22494

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45, tbl.8, pl.8, f.3.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, unit 8, W to E 2.6-mi-long measured section (section 7) along S side of Hueco Canyon starting 0.25 mi NW of hill 5360, and 1.7 mi E of Escontrias Ranch headquarters at Hueco Tanks, and ending 0.4 mi SW of Goat Tub Tank, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22590

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45, tbl.8.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. Float from first limestone above Deer Mountain, N-facing escarpment S of and above road leading out of E end of Hueco Canyon NE to Menzies Ranch, and 0.35 mi NNE of Goat Tub Tank, and 1 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hueco Mountains 15 Quad. CENTER W W W sec15T26SR10E, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22772

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At base and 28 ft and 90 ft above base of unit 18, WSW to ENE 1.8-mi-long measured section (section 1) in canyon 1.5 mi N of Powwow Canyon and starting at base of Hueco Canyon Fm 0.4 mi N15E of hill 5454, and ending on N-S ridge 0.25 mi SW of BM 5318 on N-S dirt road, and 1.2 mi N of Hueco Inn, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22776

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. In 4-ft bed in middle of unit 17, WSW to ENE 1.8-mi-long measured section (section 1) in canyon 1.5 mi N of Powwow Canyon and starting at base of Hueco Canyon Fm 0.4 mi N15E of hill 5454, and ending on N-S ridge 0.25 mi SW of BM 5318 on N-S dirt road, and 1.2 mi N of Hueco Inn, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22806

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, unit 8, W to E 2.6-mi-long measured section (section 7) along S side of Hueco Canyon starting 0.25 mi NW of hill 5360, and 1.7 mi E of Escontrias Ranch headquarters at Hueco Tanks, and ending 0.4 mi SW of Goat Tub Tank, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22826

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At base and 30 ft above base of unit 11, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22832

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 39, 43 and 66 ft above base of unit 10, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22838

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float and in place, unit 9, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22843

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Unit 8, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22847

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 15, 20, 82 and 75 ft above base of unit 7, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22856

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 20, 30, 35, 40 and 45 ft above base of unit 3, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

Hypotype YPM 22861

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 5, 10, 15 and 45 ft above base of unit 1, WNW to ESE 1.2-mi-long measured section (section 9) along N side of canyon wall, starting at base along Texas-New Mexico border 0.7 mi due E of BM 4393, and ending at SE end of ridge 0.6 mi SSE of hill 5306, northern Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22871

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, 0.3 mi NNW of hill 5368, and 1.4 mi SE of Escontrias Ranch headquarters, and 1 mi E of Hueco Tanks, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22874

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float along Rimrock, 0.5 mi WNW of hill 5548, and 1.4 mi NW of Juan Peak, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22887

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 0.1 mi S of hill 4884, 1.9 mi NE of Deep Well Ranch house, and 0.9 mi N of US Rt 62-180, hills 5 mi W of central Hueco Mountains, Helms West Well 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22896

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, E side of ridge 0.5 mi N50W of Cement Tank, and 0.3 mi S80E of BM 4922, and 1.6 mi WNW of summit of Cerro Alto Mountain, central Hueco Mountains, Hueco Mountains 15 Quad., Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22900

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. SE end of NW-trending ridge, 0.25 mi NW of Wallbridge Tank, and 0.5 mi N of state line, northern Hueco Mountains, Bassett Lake 15 Quad., CENTER SE SE sec25T26SR9E, Otero Co., New Mexico, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 22904

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.45.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. N side of small hill 0.5 mi SE of Little Cement Tank, and 0.1 mi S of dirt road, and 1.2 mi N of state line, northern Hueco Mountains, Bassett Lake 15 Quad., CENTER SE SE sec25T26SR9E, Otero Co., New Mexico, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 25342–25344

Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 14, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

See also *Schwagerina uddeni* Beede and Kniker.

[a]Incorrectly cited as YPM 11294D.

[b]Explanation for pl.50, f.8, is misleading; YPM 14916 is not a juvenile specimen, but the juvenile volutions of an adult individual.

***Pseudoschwagerina* cf. *P. uddeni* (Beede and Kniker)**

HYPOTYPE YPM 17458

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.475, pl.12, f.8.

Early Permian, Wolfcampian. Vilcanota Canyon, 3 km NE of Hacienda Chuquecahuana, Department of Cuzco, 45 km NW of Sicuani, on the Southern Railway of Peru. Collector: Newell, N.D.

HYPOTYPE YPM 21000

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.44, pl.1, f.5.

=*Pseudoschwagerina kozlowskii* Dunbar and Newell. PARATYPE. Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.470, pl.5, f.6.

Early Permian, Wolfcampian. Apillapampa, Bolivia. Collector: Kozlowski, R.

***Pseudostaffella needhami* Thompson**

SYNTYPE YPM 17065

Thompson, M.L. 1942. Am. J. Sci. v.240, p.411.

Pennsylvanian, Bend Grp. Bed 24, section11, 260 ft above base of Pennsylvanian, on the NW side of Mud Springs Mountain, near the W end of Whiskey Canyon, Grant Co., New Mexico, USA.

HYPOTYPE YPM 23411

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, pl.21, f.5.

Pennsylvanian, Horquilla Limestone. At 110 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23412

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, pl.21, f.6.

Pennsylvanian, Horquilla Limestone. At 115 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23413

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tf.4, pl.21, f.8.

Pennsylvanian, Horquilla Limestone. At 125 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Pseudostaffella* sp. A**

HYPOTYPE YPM 23407

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tbl.4, pl.21, f.1.

Pennsylvanian, Horquilla Limestone. Float and in place, 6 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23408

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tbl.4, tf.4(1, bed 1), pl.21, f.2.

Pennsylvanian, Horquilla Limestone. At 65 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23409

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tbl.4, pl.21, f.3.

Pennsylvanian, Horquilla Limestone. At 76 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

HYPOTYPE YPM 23410

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, pl.21, f.4.

Pennsylvanian, Horquilla Limestone. At 65 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Pseudostaffella* sp. B**

HYPOTYPE YPM 23414

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.185, tbl.4, pl.21, f.7.

Pennsylvanian, Horquilla Limestone. At 380 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

***Pseudostaffella* spp.**

HYPOTYPE YPM 23447

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.622, pl.75, f.14,17.

Pennsylvanian, Horquilla Limestone. At 295 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 23448

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.622, tf.5(2, bed 2-4f), pl.75, f.16.

Pennsylvanian, Horquilla Limestone. At 355 ft above

base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Rauserella erratica* Dunbar**

HOLOTYPE YPM 16526

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, tbl.(p.38,#1), pl.9, f.1.

PARATYPE YPM 16527

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, pl.9, f.2,8.

Middle Permian, Guadalupian. Beds 5 and 7 of Difunta section, concretionary shale, collection made along strike from Cerro Wencelao on S to 300 m W of El Indio on N, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

PARATYPE YPM 16528

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, tbl.(p.38,#2), pl.9, f.6.

Middle Permian, Guadalupian. Probably bed 15 of Difunta section, fusuline limestone 125 m S70E of summit of Cerro Agujito, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

PARATYPE YPM 16530

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, tbl.(p.38,#3), pl.9, f.5.

Dunbar, C.O. 1948. Foraminifera, pl.45, f.9,10.[a]

PARATYPE YPM 16534

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, pl.9, f.3.

PARATYPE YPM 16535

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, pl.9, f.4.

Dunbar, C.O. 1948. Foraminifera, pl.45, f.11.

Middle Permian, Guadalupian. Beds 5 and 7 of Difunta section, concretionary shale, collection made along strike from Cerro Wencelao on S to 300 m W of El Indio on N, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 21848

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.315, pl.50, f.1,2.

Middle Permian, Guadalupian, Word Fm. At 35 ft above base pf unit 33 (80 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 34953[b]

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.37, tbl.(p.38,#4), pl.9, f.7.

Middle Permian, Guadalupian, Delaware Mountain Grp. Upper part of Delaware Limestone, Texas, USA. Collector: Skinner, J.W.

[a]Incorrectly cited as holotype.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Rugosofusulina* sp.**

HYPOTYPE YPM 20035A

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360, tbl.25, tf.4(95-60), pl.37, f.21.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Rugofusulina* (?) sp.**

HYPOTYPE YPM 26335B

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.10.

HYPOTYPE YPM 26339A

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.11.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Saccammina alexanderi* (Loeblich and Tappan)**

HYPOTYPE YPM 20447

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.55, pl.3, f.1a,1b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20448

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.55, pl.3, f.2a,2b.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 68-78 ft above base of unit 27, section 19, 7 mi NW of Greybull, W flank of Sheep Mountain Anticline, sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Schubertella giraudi* Deprat**

HYPOTYPE YPM 26335A

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.1 (upper left and lower).[a]

HYPOTYPE YPM 26338C

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.1 (upper right).[a]

HYPOTYPE YPM 26339B

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.1 (upper center).[a]

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

[a]Not *Schubertella* n. sp. as stated in the explanation for pl.1, f.1.

***Schubertella kingi* Dunbar and Skinner**

SYNTYPE YPM 15079

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.11.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 15080

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.12.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

Stewart, W.J. 1968. J. Paleont. v.42, p.326, pl.41, f.14.

SYNTYPE YPM 15081

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.14.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

Stewart, W.J. 1968. J. Paleont. v.42, p.326, pl.41, f.13.

SYNTYPE YPM 15082

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.13.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 15083A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.15 (upper left).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 15083B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.15 (upper right).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 15083C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.15 (lower center).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, bed 9, Texas, USA. Collector: King, R.E.

SYNTYPE YPM 20919A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.604, pl.45, f.10 (uppermost).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (second from top).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (third from top).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (right center).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (middle right).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (lower right).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (lower right center).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919H

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (lower left center).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919J

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (lower left).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

SYNTYPE YPM 20919K

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.610, pl.45, f.10 (middle left).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360.

Early Permian, Wolfcampian, Hueco Limestone. Section 13, bed AA, 160 ft above basal contact of Hueco with Pennsylvanian shale, 2 mi WSW of Figure 2 Ranch, 1 mi NE of porphyry intrusive at hill 5039, Culberson Co., Texas, USA. Collector: Knight, J.B., 1934.

HYPOTYPE YPM 20033

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360, tbl.26, pl.38, f.12.[a]

HYPOTYPE YPM 20034A

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360, tbl.26, pl.38, f.9.

HYPOTYPE YPM 20034B

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360, tbl.26, pl.38, f.10

HYPOTYPE YPM 20035B

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.360, tbl.26, pl.38, f.11.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 22495

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.47.tbl.9, pl.9, f.1.

HYPOTYPE YPM 22496

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.47.tbl.9, pl.9, f.2.

HYPOTYPE YPM 22497

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.47.tbl.9, pl.9, f.3.

HYPOTYPE YPM 22498

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.47.tbl.9, pl.9, f.4.

HYPOTYPE YPM 22499

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.47.pl.9, f.5.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, unit 5, composite measured section (section 8); units 1-13 SSW to NNE 0.25-mi-long section starting at base 0.25 mi SSW of Juan Peak and ending at Juan Peak; units 14-17 SW to NE 0.15-mi-long section starting 0.4 mi NNW of Juan Peak and ending on ridge top 0.5 mi N of Juan Peak, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]Incorrectly cited as YPM 20036 in tbl.26.

***Schubertella melonica* Dunbar and Skinner**

SYNTYPE YPM 15197A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.11 (upper).

SYNTYPE YPM 15197B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.11 (lower).

Early Permian, Leonardian, Hess Limestone. Uppermost Hess, 1.1 mi SW of Word Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15198A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.10.

SYNTYPE YPM 15198B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.12.

SYNTYPE YPM 15199

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.14.

SYNTYPE YPM 15200

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.611, pl.57, f.13.

Early Permian, Leonardian. Leonard Fm. Upper Leonard, 1 mi WSW of old Word Ranch, Brewster Co., Texas, USA. Collector: King, R.E.

***Schubertella müellerriedi* Thompson and Miller**

HYPOTYPE YPM 21873

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.7, tbl.(p.8), pl.6, f.8.

HYPOTYPE YPM 21874

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.7, pl.6, f.9.

HYPOTYPE YPM 21875

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.7, tbl.(p.8).

Early Permian, Leonardian, Leonard Fm. At 15 ft above base of member B of Leonard, 0.3 mi S42W of hill 5021, and N of Windmill, and NE of road to Sullivan Ranch, Decie Ranch, northern part of Lenox Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Dunbar, C.O., 8/18/1956.

***Schubertella whetensis* Ross and Tyrell**

HOLOTYPE YPM 23485

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.623, tbl.2, pl.76, f.21.

PARATYPE YPM 23486

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.623, pl.76, f.23,24.

PARATYPE YPM 23487

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.623, tbl.2, pl.76, f.22.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Schwagerina ahlfeldi* Dunbar and Newell**

HOLOTYPE YPM 17432A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, tbl.(p.463,#1), pl.3, f.4.

Early Permian. Loose on the outcrop of bed 3, section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

PARATYPE YPM 17429

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, tbl.(p.463,#2), pl.3, f.1.

PARATYPE YPM 17430

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, tbl.(p.463,#3), pl.3, f.2.[a]

Early Permian. Section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

PARATYPE YPM 17431

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, pl.3, f.3.

PARATYPE YPM 17432B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, pl.3, f.6.

PARATYPE YPM 17433

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462,463, pl.3, f.5.

PARATYPE YPM 17434

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci.

v.244, p.462, tbl.(p.463,#4), pl.3, f.7.

PARATYPE YPM 17435

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, tbl.(p.463,#5), pl.3, f.8.

Early Permian. Loose on the outcrop of bed 3, section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

PARATYPE YPM 17436A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, pl.3, f.9.

PARATYPE YPM 17436B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.462, pl.3, f.10.

Early Permian. Section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

[a]Cited as YPM 17429.

***Schwagerina bellula* Dunbar and Skinner**

SYNTYPE YPM 15106

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, tbl.(p.644,#3), pl.63, f.14.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

Permian, Hueco Limestone. Lower Hueco, bed 2, section SE of Hueco Tanks, Hueco Mountains, El Paso Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 25251A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.63, f.8 (upper left),9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

SYNTYPE YPM 25251B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, pl.63, f.8 (lower left),11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

SYNTYPE YPM 25251C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, pl.63, f.8 (upper right),10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

SYNTYPE YPM 25251D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, pl.63, f.8 (center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

SYNTYPE YPM 25251E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, pl.63, f.8 (lower right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116.

Early Permian, Wolfcampian, Hueco Limestone. Basal part of Hueco, just above Powwow conglomerate, saddle on spur N of entrance to Powwow Canyon [Powwow Ridge], El Paso Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 20642

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116, tbl.(p.116), pl.12, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. At 0.4 mi N83W of base of section 1, which is measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20643

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116, tbl.(p.116), pl.12, f.5.

HYPOTYPE YPM 20644

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.116, tbl.(p.116), pl.12, f.7.

Early Permian, Wolfcampian, Lenox Hills Fm. At 35 ft above base of unit 14 (45 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20645

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, pl.12, f.8.

Early Permian, Wolfcampian, Lenox Hills Fm. Float, 1 to 10 ft above locality 17, which is a biohermal limestone 1200 ft S30W of section 3, which is measured up lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22501

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, tbl.10, pl.10, f.1.

HYPOTYPE YPM 22502

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, tbl.10, pl.10, f.2.

HYPOTYPE YPM 22503

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, tbl.10, pl.10, f.3.

HYPOTYPE YPM 22504

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, tbl.10, pl.10, f.4.

HYPOTYPE YPM 22505

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, pl.10, f.5.

HYPOTYPE YPM 22506

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.48, pl.10, f.6.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, saddle on E-W ridge on N side of Powwow Canyon, and 0.9 mi ENE of Powwow Tank, and 0.4 mi WNW of hill 5460, central Hueco Mountain, Helms West Well 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina bellula*? Dunbar and Skinner**

HYPOTYPE YPM 15105

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.643, pl.63, f.16.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, bed 2, section SE of Hueco Tanks, Hueco Mountains, El Paso Co., Texas, USA. Collector: King, R.E.

***Schwagerina compacta* (White)**

HYPOTYPE YPM 15113

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.645, tbl.(p.645,#3), pl.64, f.7.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117.

HYPOTYPE YPM 15113A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.645.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 15114

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.645, tbl.(p.645,#2), pl.65, f.16.

=*Schwagerina pugunculus* Ross. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118 (in description of *S. compacta*).

Early Permian, Wolfcampian, Wolfcamp Fm. Upper Wolfcamp, 0.5 mi NE of hill 5305, Hess Ranch horst, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 20028

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.354, tbl.20, tf.4(5-68a), pl.37, f.24.[a]

Early Permian, Wolfcampian, Earp Fm. At 1820 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21257

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117, tbl.(p.118), pl.16, f.9.

HYPOTYPE YPM 21258

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117, tbl.(p.118), pl.16, f.10.

HYPOTYPE YPM 21259

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117, tbl.(p.118), pl.16, f.11.

HYPOTYPE YPM 21260

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.117, pl.16, f.12.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 4 (9 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21906

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.354, tbl.20, tf.4(9-22,left), pl.37, f.22.

HYPOTYPE YPM 21907

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.354, tbl.20, tf.4(9-22,right), pl.37, f.23.

Early Permian, Wolfcampian, Earp Fm. At 1820 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Published locality (Loc. 5-68a) is incorrect.

***Schwagerina crassitectoria* Dunbar and Skinner**

SYNTYPE YPM 14939A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (upper left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (middle left),3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (lower left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (uppermost), probably f.2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (middle upper center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (middle lower center),4.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (lowermost),6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939H

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (upper right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14939J

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.1 (middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14940

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.15.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14941

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641.

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.55, pl.1, f.3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14943

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14943A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14944A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, tbl.(p.642,#3), pl.65, f.7.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14944B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.14.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14945A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14945B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, tbl.(p.642,#8), pl.43, f.2, pl.65, f.8,12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14946A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, tbl.(p.642,#4), pl.65, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14946B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14946C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641, pl.65, f.13.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE? YPM 14941A, 14941B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641.

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE? YPM 14942A, 14942B, 25332–25335

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.641.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

Early Permian, Leonardian, Leonard Fm. At 400 ft above base of Leonard, 1.5 mi NW of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 20614

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, pl.9, f.10.

Early Permian, Leonardian, Leonard Fm. At 3 ft above base of unit 33 (33 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20615

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, tbl.(p.119), pl.9, f.11.

HYPOTYPE YPM 20616

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, tbl.(p.119), pl.9, f.12.

Early Permian, Leonardian, Leonard Fm. Base of unit 33 (33 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20617

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, tbl.(p.119), pl.9, f.13.

HYPOTYPE YPM 20618

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, pl.9, f.14.

HYPOTYPE YPM 20619

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118, tbl.(p.119), pl.9, f.15.

Early Permian, Leonardian, Leonard Fm. At 3 ft above base of unit 33 (33 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21181

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, tbl.(p.124), pl.17, f.1.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 8 ft above base of unit 3 (48 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills

Fm, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21183

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, tbl.(p.124), pl.17, f.4.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 7 (5 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21184

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, tbl.(p.124), pl.17, f.5.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 13 (1 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21185

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, tbl.(p.124), pl.17, f.9.

Leonard Fm, Hess Mbr. Unit 10 (4 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21186

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, tbl.(p.124), pl.17, f.8.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 7 (5 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21187

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, pl.17, f.6.

HYPOTYPE YPM 21188

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, pl.17, f.7.

HYPOTYPE YPM 21189

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, pl.17, f.2.

HYPOTYPE YPM 21190

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123, pl.17, f.3.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 5 ft above base of unit 2 (270 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21832

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9, tbl.(p.9), pl.1, f.15.

HYPOTYPE YPM 21833

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9, tbl.(p.9), pl.1, f.16.

Early Permian, Leonardian, Leonard Fm, Mbr A. Float, unit 25 (29 ft thick), section 6A, measured S to N up face of Lenox Hills, and about 0.33 mi NNE of Slick-Urschel no. 1 Mary Decie well site, and 2.5 mi N10W of Decie Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22507

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, tbl.11, pl.11, f.1.

HYPOTYPE YPM 22508

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, tbl.11, pl.11, f.2.

HYPOTYPE YPM 22509

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, tbl.11, pl.11, f.3.

HYPOTYPE YPM 22510

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, tbl.11, pl.11, f.4.

HYPOTYPE YPM 22511

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, pl.11, f.5.

HYPOTYPE YPM 22512

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, pl.11, f.6.

HYPOTYPE YPM 22513

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.50, pl.11, f.7.

Early Permian, Leonardian(?), Hueco Grp, Alacran Mountain Fm. At 20 ft above base of unit 9, W to E 0.3-mi-long measured section (section 6) starting at base at mouth of W-draining intermittent stream on W side of ridge and immediately E of Tank No. 1, and ending 0.3 mi WSW of BM 5213, and 2.0 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

See also *Schwagerina guembeli pseudoregularis* Dunbar and Skinner.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Schwagerina crebrisepta* Ross**

HOLOTYPE YPM 20634

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.303, tbl.(p.303), pl.4, f.3.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.120, tbl.(p.121), pl.11, f.7.

HYPOTYPE YPM 20630

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.303, tbl.(p.303).

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.120, tbl.(p.121), pl.11, f.1.

HYPOTYPE YPM 20631

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.303, tbl.(p.303), pl.4, f.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.120, tbl.(p.121), pl.11, f.2.

HYPOTYPE YPM 20632

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.303, tbl.(p.303), tf.2, pl.4, f.1.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.120, tbl.(p.121), tf.10, pl.11, f.4.

HYPOTYPE YPM 20633

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.303, pl.4, f.5.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.120, pl.11, f.5.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina davisi* Williams**

HOLOTYPE YPM 22515

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.52, tbl.12, pl.12, f.2.

PARATYPE YPM 22514

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.52, tbl.12, pl.12, f.1.

PARATYPE YPM 22516

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.52, tbl.12, pl.12, f.3.

PARATYPE YPM 22517

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.52, pl.12, f.4.

PARATYPE YPM 22518

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.52, tbl.12, pl.12, f.5.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. At 5, 10, 25 and 45 ft above base of unit 17, composite measured section (section 8); units 1-13 SSW to NNE 0.25-mi-long section starting at base 0.25 mi SSW of Juan Peak and ending at Juan Peak; units 14-17 SW to NE 0.15-mi-long section starting 0.4 mi NNW of Juan Peak and ending on ridge top 0.5 mi N of Juan Peak, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina dispansa* Ross**

HOLOTYPE YPM 20628

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, tbl.(p.304), pl.2, f.7.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, tbl.(p.122), pl.10, f.9.

HYPOTYPE YPM 20624

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, pl.2, f.9.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, pl.10, f.5.

HYPOTYPE YPM 20625

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, tbl.(p.304), pl.2, f.11.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, tbl.(p.122), pl.10, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Near middle of unit 39 (68 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20626

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, tbl.(p.304), pl.2, f.12.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, tbl.(p.122), pl.10, f.7.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 40 (12 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20627

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, pl.2, f.10.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, pl.10, f.8.

HYPOTYPE YPM 20629
Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.304, tbl.(p.304), pl.2, f.8.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.121, tbl.(p.122), pl.10, f.10.

Early Permian, Wolfcampian, Lenox Hills Fm. Near middle of unit 39 (68 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina diversiformis* Dunbar and Skinner**

SYNTYPE YPM 14972A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (upper left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14972B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (lower left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14972C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14972D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (upper right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14972E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14972F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.1 (lower right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14973

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

Early Permian, Hueco Limestone. Outlier 7/8 mi W of the W edge of the Franklin Mountain, and 4 mi E and 1 mi N of Montoya siding; on the geologic map of El Paso folio this outcrop is marked by a dip symbol 10° W, [White Spur, N side], El Paso Co., Texas, USA. Collector: Nelson, L.A.

SYNTYPE YPM 14975A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14975

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, tbl.(p.648,#1), pl.60, f.4.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

LECTOTYPE. Williams, T.E. 1966. J. Paleont. v.40, n.5, p.1145.

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

SYNTYPE YPM 14976

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, tbl.(p.648,#3), pl.60, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14977A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, tbl.(p.648,#4), pl.60, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14977B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, tbl.(p.648,#5), pl.60, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE YPM 14978

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.60, f.3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

SYNTYPE? YPM 14964A, 14964B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

Early Permian, Wolfcampian, Wolfcamp Fm. S middle part of Hess Ranch horst, W end, [2.5 mi NE of Hess Ranch,] Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE? YPM 14974A, 14974B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

SYNTYPE? YPM 15107

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, bed 2, section SE of Hueco Tanks, Hueco Mountains, El Paso Co., Texas, USA. Collector: King, R.E.

SYNTYPE? YPM 20890, 20890A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123.

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 14978A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.43, pl.2, f.3,4.

Dunbar, C.O. 1940. Foraminifera, p.145, pl.44, f.11.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.647, pl.42, f.9.

Dunbar, C.O. 1948. Foraminifera, p.157, pl.44, f.11.

Early Permian, Wolfcampian, Hueco Limestone. Outlier 7/8 mi W of the W edge of the Franklin Mountain, and 4 mi E and 1 mi N of Montoya siding; on the geologic map of El Paso folio this outcrop is marked by a dip symbol 10° W, [White Spur, N side], El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 20635

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, pl.11, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15

(1 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20636

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, tbl.(p.123), pl.11, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 17 (1.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20637

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, tbl.(p.123), pl.11, f.8.

HYPOTYPE YPM 20638

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, tbl.(p.123), pl.12, f.1.

HYPOTYPE YPM 20639

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, tbl.(p.123), pl.12, f.2.

HYPOTYPE YPM 20640

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, pl.12, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (1 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20641

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.123, tbl.(p.123), pl.12, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Float, 1 to 10 ft above locality 17, which is a biohermal limestone 1200 ft S30W of section 3, which is measured up lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22519

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.54, tbl.13, tf.3, pl.13, f.1.

HYPOTYPE YPM 22520

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.54, tbl.13, pl.13, f.2.

HYPOTYPE YPM 22521

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.54, tbl.13, pl.13, f.3.

HYPOTYPE YPM 22522

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.54, tbl.13, pl.13, f.4.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. Float from first limestone above Deer Mountain, N-facing escarpment S of and above road leading out of E end of Hueco Canyon NE to Menzies Ranch, and 0.35 mi NNE of Goat Tub Tank, and 1 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hueco Mountains 15 Quad., CENTER W W W sec15T26SR10E, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Schwagerina dugoutensis* Ross**

HOLOTYPE YPM 20621

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, tbl.(p.10), p.10, pl.3, f.10.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.124, tbl.(p.125), pl.10, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. At 0.4 mi N83W of base of section 1, which is measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20620

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, tbl.(p.10), pl.3, f.6.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.124, tbl.(p.125), pl.10, f.1.

Early Permian, Leonardian, Leonard Fm. Unit 19 (30 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20622

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, tbl.(p.10), pl.3, f.8.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.124, tbl.(p.125), pl.10, f.3.

HYPOTYPE YPM 20623

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, tbl.(p.10), pl.3, f.9.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.124, tbl.(p.125), pl.10, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. At 0.4 mi N83W of base of section 1, which is measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21850

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, pl.3, f.5.

Early Permian, Leonardian, Leonard Fm. Unit 24 (25 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21851

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.10, pl.3, f.7.

Early Permian, Leonardian, Leonard Fm. Unit 25 (8 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina dunnensis* Sabins and Ross**

HOLOTYPE YPM 20036

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, tbl.16, tf.4(5-60, upper), pl.35, f.7.[a]

Late Pennsylvanian, post-Virgilian, Earp Fm. At 45 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20034

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, tbl.16, pl.35, f.2.

HYPOTYPE YPM 20037

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, tbl.16, tf.4(5-60, lower), pl.35, f.6.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21880

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, tbl.16, tf.4(9-11, upper), pl.35, f.1.

HYPOTYPE YPM 21881

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, pl.35, f.3.

HYPOTYPE YPM 21882

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, tbl.16, pl.35, f.4.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 45 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21883

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, pl.35, f.5.

HYPOTYPE YPM 21884

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.350, pl.35, f.8.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Published locality (Loc. 5-60) is incorrect; the correct locality is Loc. 9-11.

***Schwagerina emaciata* (Beede)**

HYPOTYPE YPM 15083D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.45, f.15 (lower left).

Early Permian, Wolfcampian, Hueco Limestone. Lower Hueco, bed 9, Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 15084

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.11.

HYPOTYPE YPM 15172A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.8.

HYPOTYPE YPM 15172B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.9.

HYPOTYPE YPM 15173A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.6.

HYPOTYPE YPM 15173B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.7.

Early Permian, Wolfcampian, Cottonwood Limestone. At 3 mi E and 2 mi S of Douglas, NE sec3T1NR13E, Otoe Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 20039

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, tbl.15, tf.4(5-56), pl.37, f.15.[a]

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A56, 290 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20058

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, pl.37, f.18.[b]

HYPOTYPE YPM 20059

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, pl.37, f.16.[c]

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A54, 270 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20610

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.126, pl.9, f.6.

HYPOTYPE YPM 20611

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.126, tbl.(p.126), pl.9, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (1.5 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20612

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.126, tbl.(p.126), pl.9, f.8.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 24 (7 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20613

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.126, tbl.(p.126), pl.9, f.9.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 22 (3 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20775

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.126, tbl.(p.126).

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (1.5 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20920A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.1 (specimen undetermined),2.

HYPOTYPE YPM 20920B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.1 (specimen undetermined),3.

HYPOTYPE YPM 20920C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.1 (specimen undetermined),4.

HYPOTYPE YPM 20920D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.1 (lower left).

HYPOTYPE YPM 20920E, 20920F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.1 (specimen undetermined).

Early Permian, Wolfcampian, Cottonwood Limestone. Eiss Hill, 6.5 miles S of Humboldt, NE sec3T1NR13E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 21897

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, tbl.15, pl.37, f.11.

HYPOTYPE YPM 21898

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, pl.37, f.12.

HYPOTYPE YPM 21899

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, tbl.15, tf.4(9-17, left), pl.37, f.13.

HYPOTYPE YPM 21900

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, pl.37, f.14.

HYPOTYPE YPM 21903

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, tbl.15, tf.4(9-17, right), pl.37, f.17.

Early Permian, Wolfcampian, Earp Fm. At 1275 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21905

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.349, pl.37, f.19.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A56, 290 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 22523

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, tbl.14, pl.14, f.1.

HYPOTYPE YPM 22524

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, pl.14, f.2.

HYPOTYPE YPM 22525

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, tbl.14, pl.14, f.3.

HYPOTYPE YPM 22526

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, tbl.14, tf.3, pl.14, f.4.

HYPOTYPE YPM 22527

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, tbl.14, pl.14, f.5.

HYPOTYPE YPM 22528

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.56, pl.14, f.6.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, unit 5, composite measured section (section 8); units 1-13 SSW to NNE 0.25-mi-long section starting at base 0.25 mi SSW of Juan Peak and ending at Juan Peak; units 14-17 SW to NE 0.15-mi-long section starting 0.4 mi NNW of Juan Peak and ending on ridge top 0.5 mi N of Juan Peak, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 50016[d]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.633, pl.56, f.12.

Early Permian, Wolfcampian, Cottonwood Limestone. Eiss Hill, 6.5 miles S of Humboldt, NE sec3T1NR13E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.
See also *Fusulina emaciata* Beede.

[a]Incorrectly cited as YPM 21901 in the explanation for pl.37.

[b]Incorrectly cited as YPM 21904.

[c]Incorrectly cited as YPM 21902.

[d]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Schwagerina* cf. *S. emaciata* (Beede)**

HYPOTYPE YPM 24364

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.469, pl.3, f.13.

HYPOTYPE YPM 24365

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.469, pl.3, f.12.

Early Permian, Wolfcampian. Yaurichambi, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Schwagerina eolata* Thompson**

HYPOTYPE YPM 22529

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, tbl.15, pl.15, f.1.

HYPOTYPE YPM 22530

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, pl.15, f.2.

HYPOTYPE YPM 22531

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, tbl.15, tf.3, pl.15, f.3.

HYPOTYPE YPM 22532

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, pl.15, f.4.

HYPOTYPE YPM 22533

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, tbl.15, pl.15, f.5.

HYPOTYPE YPM 22534

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.58, tbl.15, pl.15, f.6.

Early Permian, Wolfcampian, Hueco Grp, Cerro Alto Limestone. Hillside on W side of N-S ranch road that parallels E side of Hueco Mountain escarpment, and 0.4 mi NNE of Hueco Inn, central Hueco Mountains, Hueco Mountains 15 Quad., Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina extumida* Ross**

HOLOTYPE YPM 20649

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.305, tbl.(p.305), pl.3, f.9.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, tbl.(p.128), pl.13, f.4.

HYPOTYPE YPM 20650

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.305, tbl.(p.305), pl.3, f.5.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, tbl.(p.128), pl.13, f.5.

HYPOTYPE YPM 20646

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.305, tbl.(p.305), tf.2, pl.3, f.7.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, tbl.(p.128), tf.10, pl.13, f.1.

HYPOTYPE YPM 20647

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, pl.13, f.2.

HYPOTYPE YPM 20648

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.305, tbl.(p.305), pl.3, f.6.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, tbl.(p.128), pl.13, f.3.

HYPOTYPE YPM 20651

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.305, pl.3, f.4.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.127, pl.13, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. At 0.5 mi S65W of hill 5186, Hess Ranch horst, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina franklinensis* Dunbar and Skinner**

SYNTYPE YPM 14982A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (extreme left),2.

SYNTYPE YPM 14982B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (lower left).

SYNTYPE YPM 14982C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (left upper center),3.

SYNTYPE YPM 14982D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (right upper center),4.

SYNTYPE YPM 14982E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (center).

SYNTYPE YPM 14982F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.1 (extreme right).

Early Permian, Wolfcampian, Hueco Limestone. Outlier 7/8 mi W of the W edge of the Franklin Mountain, and 4 mi E and 1 mi N of Montoya siding; on the geologic map of El Paso folio this outcrop is marked by a dip symbol 10° W, [White Spur, N side], El Paso Co., Texas, USA. Collector: Nelson, L.A.

SYNTYPE YPM 14983A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628.

SYNTYPE YPM 14983

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.10.

SYNTYPE YPM 14984A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.5.

SYNTYPE YPM 14984B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.6.

SYNTYPE YPM 14984C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.7.

SYNTYPE YPM 14984D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.628, pl.66, f.9.

SYNTYPE YPM 15021

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.66, f.8.

Early Permian, Wolfcampian, Hueco Limestone. White Spur, S side, El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 22535

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, tbl.16, pl.16, f.1.

HYPOTYPE YPM 22536

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, tbl.16, pl.16, f.2.

HYPOTYPE YPM 22537

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, tbl.16, pl.16, f.3.

HYPOTYPE YPM 22538

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, tbl.16, pl.16, f.4.

HYPOTYPE YPM 22539

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, pl.16, f.5.

HYPOTYPE YPM 22540

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.59, pl.16, f.6.

Early Permian, Leonardian(?), Hueco Grp, Alacran Mountain Fm. At 20 ft above base of unit 9, W to E 0.3-mi-long measured section (section 6) starting at base at mouth of W-draining intermittent stream on W side of ridge and immediately E of Tank No. 1, and ending 0.3 mi WSW of BM 5213, and 2.0 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

HYPOTYPE YPM 26333

Roth, Robert. 1943. Amer. Assoc. Pet. Geol. Bulletin v.27, n.5, p.626, tf.4(1,3).

Permian, Dockum Grp. Chert shingle in Dockum outlier, in SE quarter of section 127 (John H. Gibson Survey), and about 1500 ft SW of Hells Gap, which is on road between Matador and Guthrie, Motley Co., Texas, USA. Collector: Roth, R.I., 1941.

***Schwagerina fusulinoides* Schellwien**

HYPOTYPE YPM 15171B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.121, pl.14, f.4.

=*Pseudoschwagerina texana ultima* Dunbar and Skinner. SYNTYPE. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.665, tbl.(p.665-666,#2), pl.53, f.10 (lowermost).

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 14, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Schwagerina* cf. *S. fusulinoides* Schellwien**

HYPOTYPE YPM 14921

Dunbar, C.O. 1933. Tex. Univ. Bull. n.3201, p.72, pl.6, f.1b,1c (right).

=*Pseudoschwagerina texana* Dunbar and Skinner. SYNTYPE. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.662, pl.53, f.9.

=*Pseudoschwagerina texana* Dunbar and Skinner. PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.150.

=*Pseudoschwagerina texana texana* Dunbar and Skinner. PARALECTOTYPE. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Hueco Limestone.

Lower Hueco, 1.5 mi SW of Hueco Tanks, El Paso Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 50038[a]

Dunbar, C.O. 1933. Tex. Univ. Bull. n.3201, p.72, pl.6, f.1a,1c (left).

Early Permian, Wolfcampian, Wolfcamp Fm. Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Schwagerina garlockensis* Ross**

HOLOTYPE YPM 23559

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, tbl.1, pl.19, f.10.

PARATYPE YPM 23556

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.19, f.9.[a]

PARATYPE YPM 23557

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.19, f.11.

PARATYPE YPM 23558

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, tbl.1, pl.19, f.7.

PARATYPE YPM 24230

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.19, f.8.

PARATYPE YPM 24231

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.19, f.6.

Permian, Garlock Fm, Mbr 12. About 80 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

[a]Not YPM 23666 as stated on p.157.

***Schwagerina gracilitatis* Dunbar and Skinner**

SYNTYPE YPM 14989A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (upper left),2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (middle left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (lower left),4.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (upper center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (lower center),3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (upper right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989H

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (upper middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989J

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (lower middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14989K

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, pl.62, f.1 (lower right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14990A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, tbl.(p.636,#5), pl.62, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14990B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, tbl.(p.636,#4), pl.62, f.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14990C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14991A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635,, pl.43, f.9, pl.62, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14991B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, tbl.(p.636,#1), pl.62, f.9.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.[a]

SYNTYPE YPM 14992

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, tbl.(p.636,#3), pl.62, f.8.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14992A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

SYNTYPE YPM 14993

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.635, tbl.(p.636,#2), pl.43, f.3, pl.44, f.1,2, pl.62, f.6,10.

Dunbar, C.O. 1940. Foraminifera, pl.44, f.20.

Dunbar, C.O. 1948. Foraminifera, pl.44, f.20.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129.

Early Permian, Wolfcampian, Wolfcamp Fm. From shale containing *Schwagerina*, directly below Hess Conglomerate, NE of Gap Tank, Pecos Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 20663

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129, pl.14, f.8.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 4 (9 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20664

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129, tbl.(p.129), pl.14, f.9.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 6 (1.5 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 are N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20665

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129, tbl.(p.129), pl.14, f.11.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 2 (8 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20666

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.129, tbl.(p.129), pl.14, f.10.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 8 (4 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

[a]YPM 14991B appears not to be part of the Dunbar and Skinner (1937) type series.

***Schwagerina grandensis* Thompson**

HYPOTYPE YPM 21952

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352.[a]

HYPOTYPE YPM 21953

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, tbl.18, pl.38, f.14.

HYPOTYPE YPM 21954

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, pl.38, f.15.

HYPOTYPE YPM 21955

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, tbl.18, tf.4(9-23), pl.38, f.16.

Early Permian, Wolfcampian, Earp Fm. At 1870 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21956

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, tbl.18, tf.4(9-20), pl.38, f.17.

HYPOTYPE YPM 21957

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, pl.38, f.18.

HYPOTYPE YPM 21958

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.352, tbl.18, pl.38, f.19.

Early Permian, Wolfcampian, Earp Fm. At 1410 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Not pl.38, f.13, as stated in the description for pl.38, f.14–19.

***Schwagerina* aff. *S. grandensis* Thompson**

HYPOTYPE YPM 22541

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.61.tbl.17, pl.17, f.1.

HYPOTYPE YPM 22542

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.61.tbl.17, pl.17, f.2.

HYPOTYPE YPM 22543

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.61.tbl.17, pl.17, f.3.

HYPOTYPE YPM 22544

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.61.tbl.17, pl.17, f.4.

Early Permian, Wolfcampian, Magdalena Limestone, Bursum beds. Bursum beds (below *Pseudoschwagerina* beds), upper part of Upper Division of Magdalena, 0.5 mi WNW of hill 5226, and 0.7mi NNE of hill 4849, and about 2 mi S of Hueco Tanks, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina guembeli* Dunbar and Skinner**

SYNTYPE YPM 14928A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (uppermost).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (upper center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (extreme left),2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (left lower center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1(right lower center), probably f.4.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (lower middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14928G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.1 (upper middle right), probably f.3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14929A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14929B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, tbl.(p 640,#2), pl.61, f.7.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14930A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, tbl.(p.640,#5), pl.61, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14930B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, tbl.(p.640,#3), pl.61, f.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14931A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14931

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, tbl.(p.640,#4), pl.61, f.11.[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14932A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14932

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, tbl.(p.640,#8), pl.61, f.8.[b]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14933A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, possibly f.13.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14933

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

SYNTYPE YPM 14953

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.639, pl.61, f.9.[c]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130.

Early Permian, Leonardian, Leonard Fm. Basal Leonard (about 450 ft above base), 1.5 mi W and a little N of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 20652

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130, tbl.(p.130), pl.13, f.7.

Early Permian, Leonardian, Leonard Fm. Shale and limestone, basal Leonard, top of hill 5578, Hess Ranch horst, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20653

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130, tbl.(p.130), pl.13, f.8.

Early Permian, Leonardian, Leonard Fm. Float, ant hill in King's bed 7, 2.6 mi W of hill 5060 of Wolf Camp Hills, one-third of the distance up Glass Mountains escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20654

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130, tbl.(p.130), pl.13, f.9.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 24 (1 ft thick), section 33, 0.9 mi W of Brooks Ranch house, Glass Mountains, 5 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20655

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, tf.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.130, tbl.(p.130), tf.10, pl.13, f.10.

Early Permian, Leonardian, Leonard Fm. Near base of unit 7 (42 ft thick), section 42, beginning about 0.8 mi S30E of the Allison Ranch house, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21182

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, pl.18, f.5.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 8 ft above base of unit 3 (48 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridge top just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower, NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21191

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, pl.17, f.10.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 5 ft above base of unit 2 (270 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21207

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, tbl.(p.125), pl.18, f.6.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 35 ft above base of unit 1 (108 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21208

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, tbl.(p.125), pl.17, f.11.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 3 ft above base of unit 16 (59 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21209

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, tbl.(p.125), pl.18, f.1.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 20 ft above base of unit 13 (23 ft thick), section 4, 5-mi-long S to N measured section, starting 3 mi E of Hess Ranch house, up Leonard escarpment and across to elbow in Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21210

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, tbl.(p.125), pl.17, f.12.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 21 (2 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21211

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, tbl.(p.125), pl.18, f.2.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 52 ft above base of unit 5 (95 ft thick), section 2, 5.5-mi-long S to N measured section beginning at top of Lenox Hills, near top of escarpment NW of Brooks Ranch house, and following ridgetop just E of Walker Ranch Road as high as unit 18, and on to ridge N of bend in canyon near Walker Ranch fence (units 24-30 in lower,

NE-trending ridges on Walker Ranch), Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21212

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, pl.17, f.13.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. Unit 21 (2 ft thick), section 1, S to N measured section along base of hill starting 0.4 mi SE of Allison Ranch house and ending about 0.25 mi NE of that house at base of Cretaceous, and 2-3 mi E of TX Rt 51 (Marathon [*sic*]-Fort Stockton Road), and about 2 mi SE of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21213

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, pl.18, f.3.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 5 ft above base of unit 2 (270 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21214

Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.124, pl.18, f.4.

Early Permian, Leonardian, Leonard Fm, Hess Mbr. At 35 ft above base of unit 1 (108 ft thick), section 3, 4-mi-long, S to N measured section along W edge of Brooks Ranch (starting 4 mi S50W of Brooks Ranch house) to Split Tank on Old Word Ranch, and on N to Red Tank, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21817

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.11), pl.1, f.1.

HYPOTYPE YPM 21818

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.11), pl.1, f.2.

HYPOTYPE YPM 21819

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.11), pl.1, f.3.

Early Permian, Leonardian, Leonard Fm. Float boulder, "Hess ledge," above basal Leonard, Dugout Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a]Not pl.61, f.8 (see *Schwagerina guembeli*, YPM 14932).

[b]Incorrectly cited as YPM 14931.

[c]Incorrectly cited as YPM 14928 in the explanation for pl.61.

Schwagerina guembeli pseudoregularis Dunbar and Skinner

SYNTYPE YPM 14934A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (upper left),16.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (lower left),15.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (left center),17.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (uppermost).

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (right center).

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (lowermost).

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14934G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.14 (extreme right).

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

Early Permian, Leonardian, Leonard Fm. Basal Leonard (about 450 ft above base), 1.5 mi W and a little N of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE YPM 14935A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#4), pl.61, f.18.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14935B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#1), pl.61, f.22.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

Early Permian, Leonardian, Leonard Fm. At 400 ft above base of Leonard, 1.5 mi NW of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE YPM 14936A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#5), pl.61, f.19.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner.

HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14936B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#2), pl.61, f.20.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14937A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#6), pl.61, f.23.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

SYNTYPE YPM 14937B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, tbl.(p.641,#3), pl.61, f.24.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1960. Cushman Found. Foram. Res. Contrib. v.11, pt.4, n.215, p.123.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.9.

=*Schwagerina crassitectoria* Dunbar and Skinner. HYPOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.118.

Early Permian, Leonardian, Leonard Fm. Basal Leonard (about 450 ft above base), 1.5 mi W and a little N of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE YPM 14938

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.640, pl.61, f.21.

Early Permian, Wolfcampian, Wolfcamp Fm. Upper Wolfcamp, bed containing large *Schwagerina*, westernmost outcrop of Wolfcamp on Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Schwagerina hawkinsi* Dunbar and Skinner**

SYNTYPE YPM 14954A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, pl.59, f.1 (uppermost),3.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14954B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, pl.59, f.1 (upper middle left),2,8.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14954C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, pl.59, f.1 (lower middle left).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14954D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, pl.59, f.1 (lowermost).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14954E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ.

Bull. n.3701, p.632, pl.59, f.1 (extreme right).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14955

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, tbl.(p.633,#2), pl.56, f.16, pl.59, f.4.

LECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.[a]

SYNTYPE YPM 14956

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, tbl.(p.633,#3), pl.59, f.5.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.[a]

SYNTYPE YPM 14957A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, tbl.(p.633,#4), pl.56, f.15, pl.59, f.6.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14957B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, tbl.(p.633,#1), pl.59, f.9.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

SYNTYPE YPM 14958

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632, pl.59, f.7.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

Early Permian, Leonardian, Leonard Limestone. Base of the Leonard [lower Hess Conglomerate] on Dugout Mountain, Brewster Co., Texas, USA. Collector: Roth, R.I.

SYNTYPE? YPM 17189A–17189C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.632.[b]

PARALECTOTYPE? Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11.

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131.

HYPOTYPE YPM 20686

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131, tbl.(p.132), tf.10, pl.29, f.4.

HYPOTYPE YPM 20687

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131, tbl.(p.132), pl.29, f.5.

Early Permian, Leonardian, Leonard Fm. Unit 24 (25 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20689

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131, tbl.(p.132), pl.28, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Float, 1 ft to 10 ft above locality 17, a biohermal limestone 1200 ft S30W of section 3, which is measured up lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20690

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.131, tbl.(p.132).

Early Permian, Wolfcampian, Lenox Hills Fm. At 0.4 mi N83W of base of section 1, which is measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21852

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.12), pl.4, f.1.

Early Permian, Leonardian, Leonard Fm. Unit 24 (25 ft thick), section 8, beginning at SE face of the Lenox

Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21853

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, pl.4, f.2.

Early Permian, Leonardian, Leonard Fm. Basal Leonard (Hess reef ledge), 0.9 mi ENE of hill 4902, and 2.6 mi NNW of Decie Ranch house, and 2.5 mi NE of Lenox, Lenox Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Dunbar, C.O. and Morris, P.A., 7/21/1941.

HYPOTYPE YPM 21854

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.12), pl.4, f.3.

Early Permian, Leonardian, Leonard Fm. Unit 18 (35 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21855

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.12), pl.4, f.4.

Early Permian, Leonardian, Leonard Fm. Unit 24 (25 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21856

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, pl.4, f.5.

Early Permian, Leonardian, Leonard Fm, Mbr B. At 10 ft below top of unit 4 (205 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21857

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.11, tbl.(p.12), pl.4, f.6.

Early Permian, Leonardian, Leonard Fm. Unit 24 (25 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a] Ross (1963) incorrectly designates YPM 14956 the lectotype; Ross (1962) had previously designated YPM 14955 the lectotype.

[b] This slide is marked as a cotype [syntype], although it was not cited in the original description.

Schwagerina hessensis Dunbar and Skinner

SYNTYPE YPM 14947A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (top left).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (left),5.[a]

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (lower left),2.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (center),3.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947E[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (upper center).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947F[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (upper right).

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14947G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.1 (lower right),4.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14948A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, tbl.(p.631,#4), pl.58, f.8.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14948B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, tbl.(p.631,#1), pl.58, f.11.

LECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14949

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, tbl.(p.631,#5), pl.58, f.7.[c]

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14949A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14950A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, tbl.(p.631,#6), pl.58, f.6.[d]

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14950B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, tbl.(p.631,#2), pl.58, f.10.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

SYNTYPE YPM 14951

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.630, pl.58, f.9.

PARALECTOTYPE. Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133.

Early Permian, Leonardian, Leonard Limestone. Base of the Leonard Limestone [lower Hess Conglomerate] on Dugout Mountain, Brewster Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 20669

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133, tbl.(p.133).

Early Permian, Leonardian, Leonard Fm. Unit 10 (26 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20670

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133, tbl.(p.133), pl.15, f.1.

Early Permian, Leonardian, Leonard Fm. Unit 27 (10 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20671

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133, tbl.(p.133), pl.15, f.2.

HYPOTYPE YPM 20672

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.133, tbl.(p.133), pl.15, f.4.

Early Permian, Leonardian, Leonard Fm. Unit 10 (26 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21824

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.8.

HYPOTYPE YPM 21825

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.9.

HYPOTYPE YPM 21826

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.12.

HYPOTYPE YPM 21827

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.11.

HYPOTYPE YPM 21828

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.17.

HYPOTYPE YPM 21829

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.1, f.13.

Early Permian, Leonardian, Leonard Fm. Near top of basal conglomerate of Mbr A of Leonard (Hess of Dunbar notes), top of the lower of 2 isolated upper limestone beds, about 300 ft above base of Permian, 0.3 mi S42W of hill 5021, and N of Windmill, and NE of road to Sullivan Ranch, Decie Ranch, northern part of Lenox Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Dunbar, C.O., 7/1/1950.

HYPOTYPE YPM 21838

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, tbl.(p.13), pl.2, f.5.

Early Permian, Leonardian, Leonard Fm. Unit 25 (8 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21839

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.2, f.7.

Early Permian, Leonardian, Leonard Fm. Unit 10 (26 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21840

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, tbl.(p.13), pl.2, f.8.

Early Permian, Leonardian, Leonard Fm. At 50 ft below 2nd limestone of Leonard, 900 ft N of N face of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21841

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, pl.2, f.9.

Early Permian, Leonardian, Leonard Fm. Unit 10 (26 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21842

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.12, tbl.(p.13), pl.2, f.10.

Early Permian, Leonardian, Leonard Fm, Mbr B. At 40 ft above base of unit 4 (205 ft thick), section 6, 5-mi-long section measured NW up face of Lenox Hills, starting at point W of Sullivan Ranch Road, and about 2.5 mi N05W of Decie Ranch house, and then across hills toward top of Sullivan Peak, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

[a]Incorrectly cited as YPM 14952 in the explanation for pl.58.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

[c]Not pl.58, f.6; incorrectly cited as YPM 14950 on pl.58, f.7.

[d]Not pl.58, f.7; incorrectly cited as YPM 14949 on pl.58, f.6.

***Schwagerina? hollandensis* Ross**

HOLOTYPE YPM 23564

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157, tbl.1, pl.19, f.4.

Permian, Garlock Fm, Mbr 12. About 60 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

PARATYPE YPM 23552

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157, tbl.1, pl.19, f.1.

Permian, Garlock Fm, Mbr 12. About 80 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S

of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

PARATYPE YPM 23563

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157, tbl.1, pl.19, f.3.

PARATYPE YPM 23565

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157.

PARATYPE YPM 23566

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157.[a]

PARATYPE YPM 23567

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157.

PARATYPE YPM 23568

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157, pl.19, f.2.

PARATYPE YPM 24232

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.157, pl.19, f.5.

Permian, Garlock Fm, Mbr 12. About 60 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

[a]Incorrectly cited as YPM 23666.

***Schwagerina huecoensis* (Dunbar and Skinner)**

HYPOTYPE YPM 22549

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.62, tbl.18, tf.3, pl.18, f.1.

HYPOTYPE YPM 22550

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.62, tbl.18, pl.18, f.2.

HYPOTYPE YPM 22551

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.62, tbl.18, pl.18, f.3.

HYPOTYPE YPM 22552

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.62, tbl.18, pl.18, f.4.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float along Rimrock, 0.5 mi WNW of hill 5548, and 1.4 mi NW of Juan Peak, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

See also *Pseudofusulina huecoensis* Dunbar and Skinner.

***Schwagerina huecoensis*? (Dunbar and Skinner)**

HYPOTYPE YPM 26332

Roth, Robert. 1943. Amer. Assoc. Pet. Geol. Bulletin v.27, n.5, p.626, tf.4(1,2).

Permian (reworked), Dockum Grp. Chert shingle in Dockum outlier, in SE quarter of section 127 (John H. Gibson Survey), and about 1500 ft SW of Hells Gap, which is on road between Matador and Guthrie, Motley Co., Texas, USA. Collector: Roth, R.I., 1941.

***Schwagerina kansasensis* Beede**

HYPOTYPE YPM 11144A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.117, pl.12, f.1.

HYPOTYPE YPM 11144B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.117, pl.12, f.2.

Early Permian, Wolfcampian, Wolfcamp Fm. Lower Wolfcamp Fm, bed 9, just above *Uddenites* zone, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: Schuchert, C.

***Schwagerina knighti* Dunbar and Skinner**

SYNTYPE YPM 15189A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.11 (uppermost).

SYNTYPE YPM 15189B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.11 (extreme left).

SYNTYPE YPM 15189C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.11 (center).

SYNTYPE YPM 15189D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.11 (upper right).

SYNTYPE YPM 15189E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.11 (lower right),12.

SYNTYPE YPM 15190A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.13.

SYNTYPE YPM 15190B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648, pl.81, f.14.

SYNTYPE? YPM 15191A, 15191B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.648.[a]

Early Permian, Wolfcampian, Hueco Limestone. Hueco Limestone below the cliff-forming Bone Spring Limestone just N of the intrusion in Marble Canyon, Culberson Co., Texas, USA. Collector: Skinner, J.W.

HYPOTYPE YPM 22553

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.64, tbl.19, pl.19, f.1.

HYPOTYPE YPM 22554

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.64, tbl.19, pl.19, f.2.

HYPOTYPE YPM 22555

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.64, tbl.19, tf.3, pl.19, f.3.

HYPOTYPE YPM 22556
Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.64, tbl.19, pl.19, f.4.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. Float, unit 8, W to E 2.6-mi-long measured section (section 7) along S side of Hueco Canyon starting 0.25 mi NW of hill 5360, and 1.7 mi E of Escontrias Ranch headquarters at Hueco Tanks, and ending 0.4 mi SW of Goat Tub Tank, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

Schwagerina laxissima Dunbar and Skinner

SYNTYPE YPM 15017A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (uppermost).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (upper left),4.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (lower left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (upper middle right),3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (center),9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (lower middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15017G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, pl.68, f.1 (lower right),2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15018

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, tbl.(p.653,#1), pl.68, f.6,11.

Thompson, M.L. 1943. J. Paleont. v.17, n.2, p.205, pl.33, f.4.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

LECTOTYPE. Williams, T.E. 1966. J. Paleont. v.40, n.5, p.1149.

SYNTYPE YPM 15019A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, tbl.(p.653,#2), pl.68, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15019B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, tbl.(p.653,#3), pl.68, f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15020A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, tbl.(p.653,#5), pl.68, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15020B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652, tbl.(p.653,#4), pl.68, f.8.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

SYNTYPE YPM 15020C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.652.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134.

Early Permian, Wolfcampian, Hueco Limestone. In an outlier in the slope facing Anthony, in the Franklin Mountains, about 12 mi N of El Paso, El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 20695

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134, pl.17, f.1.

HYPOTYPE YPM 20696

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134, tbl.(p.135), pl.17, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. At 35 ft above base of unit 14 (45 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20697

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134, tbl.(p.135), pl.17, f.3.

HYPOTYPE YPM 20698

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134, tbl.(p.135), tf.10, pl.17, f.5.

Early Permian, Leonardian, Leonard Fm. Near base of unit 4 (16 ft thick), section 11, W end of Leonard Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20705

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.134, tbl.(p.135), pl.18, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. At 35 ft above base of unit 14 (45 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina lineanoda* Ross**

HOLOTYPE YPM 20675

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, tbl.(p.306), pl.2, f.3.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, tbl.(p.136), pl.15, f.6.

HYPOTYPE YPM 20673

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, pl.2, f.5.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, pl.15, f.3.

HYPOTYPE YPM 20674

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, tbl.(p.306), pl.2, f.4.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, tbl.(p.136), pl.15, f.5.

HYPOTYPE YPM 20676

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, tbl.(p.306), pl.2, f.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, tbl.(p.136), pl.15, f.7.

Early Permian, Leonardian, Leonard Fm. Near top of unit 35 (28 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20677

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, tbl.(p.306), pl.2, f.1.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, tbl.(p.136), pl.15, f.8.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 12 (6 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20678

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.306, pl.2, f.6.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.135, pl.15, f.10.

Early Permian, Leonardian, Leonard Fm. Near top of unit 35 (28 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina linearis* Dunbar and Skinner**

SYNTYPE YPM 14959A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, pl.62, f.12 (upper),13.[a]

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14959B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, pl.62, f.12 (lower),14.[a]

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14960A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14960

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, pl.63, f.1.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

Early Permian, Wolfcampian, Hueco Limestone. Hueco Canyon in the S wall of Victorio Canyon, Sierra Diablo, Culberson Co., Texas, USA. Collector: Skinner, J.W.

SYNTYPE YPM 14964

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, pl.63, f.7.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14965A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, tbl.(p.638,#1), pl.63, f.4.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.
=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14965B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, tbl.(p.638,#2), pl.63, f.5.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

Early Permian, Wolfcampian, Wolfcamp Fm. S middle part of Hess Ranch horst, W end, [2.5 mi NE of Hess Ranch,] Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 14966A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ.

Bull. n.3701, p.637, tbl.(p.638,#5), pl.63, f.2.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14966B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, tbl.(p.638,#7), pl.63, f.3.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14967A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, tbl.(p.638,#4), pl.62, f.15.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

SYNTYPE YPM 14967B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.637, pl.63, f.6.

=*Monodiexodina linearis.* Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.6.

=*Monodiexodina linearis.* PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.160.

Early Permian, Wolfcampian, Wolfcamp Fm. Upper Wolfcamp, bed containing large *Schwagerina*, westernmost outcrop of Wolfcamp on Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

[a]The published magnification, ×1, is incorrect.

***Schwagerina loringi* (Thompson)**

HYPOTYPE YPM 21928

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, tbl.22, tf.4(7-3,lower), pl.39, f.11.

HYPOTYPE YPM 21929A

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, pl.39, f.12.

HYPOTYPE YPM 21929B

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, pl.39, f.16.

HYPOTYPE YPM 21930

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, tbl.22, pl.39, f.13.

HYPOTYPE YPM 21931

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, tbl.22, tf.4(7-3, upper), pl.39, f.14.

Early Permian, Wolfcampian, Earp Fm. Basal part of exposed measured section, SW side of Indian Creek, and 2.2 mi NW of Maverick Peak, central Chiricahua Mountains, NE NW sec17T16SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21932

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, tf.4(9-24), pl.39, f.15.

Early Permian, Wolfcampian, Earp Fm. At 2030 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW down slope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21933

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.356, tbl.22, pl.39, f.17.

Early Permian, Wolfcampian, Earp Fm. Basal part of exposed measured section, SW side of Indian Creek, and 2.2 mi NW of Maverick Peak, central Chiricahua Mountains, NE NW sec17T16SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Schwagerina menziesi* Williams**

HOLOTYPE YPM 22557

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, tbl.20, pl.20, f.1.

PARATYPE YPM 22558

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, tbl.20, pl.20, f.2.

PARATYPE YPM 22559

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, pl.20, f.3.

PARATYPE YPM 22560

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, tbl.20, pl.20, f.4.

PARATYPE YPM 22561

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, tbl.20, pl.20, f.5.

PARATYPE YPM 22562

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.66, pl.20, f.6.

Early Permian, Leonardian(?), Hueco Grp, Alacran Mountain Fm. Unit 8, W to E 0.3-mi-long measured section (section 6) starting at base at mouth of W-draining intermittent stream on W side of ridge and immediately E of Tank No. 1, and ending 0.3 mi WSW of BM 5213, and 2.0 mi SSE of summit of Cerro Alto Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina munaniensis* Dunbar and Newell**

HOLOTYPE YPM 17449

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, tbl.(p.468,#1), pl.11, f.8.

PARATYPE YPM 17450

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, tbl.(p.468,#2), pl.11, f.9.

PARATYPE YPM 17451

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, tbl.(p.468,#3), pl.11, f.10.

PARATYPE YPM 17452

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, pl.11, f.11.

PARATYPE YPM 17453

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, tbl.(p.468,#4), pl.11, f.13.

PARATYPE YPM 20994

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.467, p.468, pl.11, f.7.

Early Permian, Wolfcampian. Quebrada Quishuarani, NE of Munani, Peru. Collector: Newell, N.D.

***Schwagerina nelsoni* Dunbar and Skinner**

SYNTYPE YPM 14979A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (lower middle left).

=*Pseudofusulina nelsoni opima* Thompson. HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14979B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (lower left).

=*Pseudofusulina nelsoni opima* Thompson. HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14979C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (lower middle right),4.

=*Pseudofusulina nelsoni opima* Thompson. HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14979D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (lower right),5.

=*Pseudofusulina nelsoni opima* Thompson. HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14980

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#2), pl.67, f.8.

=*Pseudofusulina nelsoni opima* Thompson. HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14980A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#4), pl.67, f.13.

=*Pseudofusulina nelsoni opima* Thompson.
HYPOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14981

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#1), pl.67, f.9.

=*Pseudofusulina nelsoni opima* Thompson.
HOLOTYPE. Thompson, M.L. 1954. Univ. Kans. Paleont. Contrib. Protozoa, Art.5, p.70.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

LECTOTYPE. Williams, T.E. 1966. J. Paleont. v.40, n.5, p.1150.

SYNTYPE YPM 14981A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

Early Permian, Wolfcampian, Hueco Limestone. Outlier W of the main Franklin range and 4.5 mi E and 1 mi N of Canutillo; on the geologic map of El Paso folio the locality is marked by the dip symbol 15°, El Paso Co., Texas, USA. Collector: Nelson, L.A.

SYNTYPE YPM 14985A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (upper left),2.[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14985B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, p.650, pl.67, f.1 (upper right),11.[a]

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14986A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (upper middle left),3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14986B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (middle center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14987

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#3), pl.67, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14988A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#5), pl.67, f.12, possibly f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 14988

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 50017[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (upper center).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 50018[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, pl.67, f.1 (upper middle right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

SYNTYPE YPM 50019[b]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.650, tbl.(p.651,#6), pl.67, f.14.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137.

Early Permian, Wolfcampian, Hueco Limestone. Outlier 7/8 mi W of the W edge of the Franklin Mountain, and 4 mi E and 1 mi N of Montoya siding; on the geologic map of El Paso folio this outcrop is marked by a dip symbol 10° W, [White Spur, N side], El Paso Co., Texas, USA. Collector: Nelson, L.A.

HYPOTYPE YPM 20699

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.17, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20700

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.18, f.1.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 17 (1.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20701

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.18, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 38 (95 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20702

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, tbl.(p.137), pl.18, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 17 (1.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20703

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, tbl.(p.137), pl.18, f.4.

Early Permian, Leonardian, Leonard Fm. Unit 10 (26 ft thick), section 4, measured up highest portion of Dugout Mountain, about 0.25 mi S of the N windgap, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20704

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.18, f.5.

HYPOTYPE YPM 20706

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, tbl.(p.137), tf.10, pl.19, f.1.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20707

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.19, f.2.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 12 (3.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20708

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.19, f.3.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20709

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, tbl.(p.137), pl.19, f.4.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 17 (1.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20710

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, tbl.(p.137), pl.19, f.5.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 15 (4.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20711

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.137, pl.19, f.6.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 12 (3.5 ft thick), section 8, beginning at SE face of the Lenox Hills 2.5 mi N10W of the Decie Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 22568

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.69, tbl.22, tf.3, pl.22, f.1.

HYPOTYPE YPM 22569

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.69, tbl.22, pl.22, f.2.

HYPOTYPE YPM 22570

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.69, tbl.22, pl.22, f.3.

HYPOTYPE YPM 22571

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.69, tbl.22, pl.22, f.4.

HYPOTYPE YPM 22572

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.69, pl.22, f.5.

Early Permian, Wolfcampian, Hueco Grp, Alacran Mountain Fm. At 60 ft above base of unit 13, SW to NE 0.45-mi-long measured section (section 2) starting at base in canyon 0.3 mi SW of summit of Alacran Mountain, and ending at summit of Alacran Mountain, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]Incorrectly cited as YPM 14986 and/or 14979 in the plate explanation.

[b]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Schwagerina neolata* Thompson**

HYPOTYPE YPM 22563

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.67, tbl.21, tf.3, pl.21, f.1.

HYPOTYPE YPM 22564

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.67, tbl.21, pl.21, f.2.

HYPOTYPE YPM 22565

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.67, tbl.21, pl.21, f.3.

HYPOTYPE YPM 22566

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.67, pl.21, f.4.

HYPOTYPE YPM 22567

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.67, tbl.21, pl.21, f.5.

Early Permian, Wolfcampian, Hueco Grp, Cerro Alto Limestone. Unit 28, WSW to ENE 1.8-mi-long measured section (section 1) in canyon 1.5 mi N of Powwow Canyon and starting at base of Hueco Canyon Fm 0.4 mi N15E of hill 5454, and ending on N-S ridge 0.25 mi SW of BM 5318 on N-S dirt road, and 1.2 mi N of Hueco Inn, central Hueco Mountains, Hudspeth Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina* (?) *patens* Dunbar and Newell**

HOLOTYPE YPM 17441

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#4), pl.4, f.8.

PARATYPE YPM 17438

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, pl.4, f.2.

PARATYPE YPM 17439

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, pl.4, f.3.

PARATYPE YPM 17440

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#7), pl.4, f.5.

PARATYPE YPM 20983

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#5), pl.4, f.6.

PARATYPE YPM 20984

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#3), pl.4, f.7.

PARATYPE YPM 20985

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#6), pl.4, f.4.

PARATYPE YPM 20986

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, tbl.(p.466,#2), pl.4, f.1.

PARATYPE YPM 20993

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.464, pl.8, f.11,12.

Early Permian. Yaurichambi, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Schwagerina prolongada* (Berry)**

HYPOTYPE YPM 17382

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, pl.1, f.2.

HYPOTYPE YPM 17383

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#2), pl.1, f.3.

HYPOTYPE YPM 17384

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, pl.1, f.7.

HYPOTYPE YPM 17385

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#3), pl.1, f.8.

HYPOTYPE YPM 20970

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#6), pl.1, f.11.

HYPOTYPE YPM 20971

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#5), pl.1, f.10.

HYPOTYPE YPM 20972A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, p.458, pl.1, f.4 (upper).

HYPOTYPE YPM 20972B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, p.458, pl.1, f.4 (lower).

HYPOTYPE YPM 20972C

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.457, tbl.(p.458,#4), pl.1, f.9.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

See also *Fusulina berryi* Berry and *Fusulina prolongada* Berry.

***Schwagerina providens* Thompson and Hazzard**

HYPOTYPE YPM 20042

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, tbl.19, tf.4(5-70a, lower), pl.38, f.l.

HYPOTYPE YPM 20043

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, tbl.19, tf.4(5-70a, upper), pl.38, f.2.

HYPOTYPE YPM 20044

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, pl.38, f.6.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 46 ft above base of unit A70, 560 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21947

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, pl.38, f.3.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 87 ft above base of unit A70, 560 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21948

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, tbl.19, tf.4(9-24), pl.38, f.4.

Early Permian, Wolfcampian, Earp Fm. At 2030 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21949

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, pl.38, f.5.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 87 ft above base of unit A70, 560 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21950

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, pl.38, f.7.

Early Permian, Wolfcampian, Earp Fm. At 2030 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21951

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.353, tbl.19, pl.38, f.8.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 87 ft above base of unit A70, 560 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua

Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Schwagerina pugunculus* Ross**

HOLOTYPE YPM 20716

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, tbl.(p.307), pl.1, f.13.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, tbl.(p.139), pl.20, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 13 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20717

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, pl.20, f.6.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 8 (2 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20718

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, tbl.(p.307).

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, tbl.(p.139), pl.20, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (1.5 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20719

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, tbl.(p.307), tf.2, pl.1, f.12.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, tbl.(p.139), tf.10(?), pl.20, f.8.

HYPOTYPE YPM 20720

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, pl.1, f.9.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, pl.20, f.9.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 16 (8 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20721

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, pl.1, f.8.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, pl.20, f.10.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 9 (6 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20777

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.307, tbl.(p.307).

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.138, tbl.(p.139).

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 20 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

See also *Schwagerina compacta* (White).

***Schwagerina randensis* Ross**

HOLOTYPE YPM 23560

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, tbl.1, pl.20, f.1.

PARATYPE YPM 23561

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, tbl.1, pl.20, f.3.

PARATYPE YPM 24228

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.20, f.2.

Early Permian, Garlock Fm, Mbr 12. About 80 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina randensis*(?) Ross**

HYPOTYPE YPM 23562

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159.

Early Permian, Garlock Fm, Mbr 12. About 60 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina setum* Dunbar and Skinner**

SYNTYPE YPM 20870A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (upper left),2.

SYNTYPE YPM 20870B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (middle left).

SYNTYPE YPM 20870C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (lower left).

SYNTYPE YPM 20870D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (center),3.

SYNTYPE YPM 20870E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (upper right).

SYNTYPE YPM 20870F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.1 (lower right).

SYNTYPE YPM 20871

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.4.

SYNTYPE YPM 20872

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.5.

SYNTYPE YPM 20873A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.6.

SYNTYPE YPM 20873B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.7.

SYNTYPE YPM 20874

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.9.

SYNTYPE YPM 20875

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.10.

SYNTYPE YPM 20876

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.11.

SYNTYPE YPM 50020[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.654, pl.69, f.8.

Early Permian, Leonardian, Victorio Peak Limestone. About 0.5 mi NNW of Bone Spring, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Schwagerina silverensis* Sabins and Ross**

HOLOTYPE YPM 21959

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, tf.4(9-13, right), pl.37, f.1.

HYPOTYPE YPM 21960

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, pl.37, f.2.

HYPOTYPE YPM 21961

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tf.4(9-13, left), pl.37, f.3.

HYPOTYPE YPM 21962

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, pl.37, f.4.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 275 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Schwagerina silverensis?* Sabins and Ross**

HYPOTYPE YPM 21963

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, tf.4(9-19, left), pl.37, f.5.

HYPOTYPE YPM 21964

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, tf.4(9-19, middle), pl.37, f.6.

HYPOTYPE YPM 21965

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.351, tbl.17, tf.4(9-19, right), pl.37, f.7.

Early Permian, Wolfcampian, Earp Fm. At 1365 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Schwagerina* sp.**

HYPOTYPE YPM 11160

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.552, pl.44, f.6,7.

Pennsylvanian, Bird Spring Fm. At 1490 ft below the top of the Birdsprings Limestone, Las Vegas Quad., Clark Co., Nevada, USA. Collector: Longwell, C.R.

***Schwagerina* sp. A**

HYPOTYPE YPM 17437

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.469, pl.3, f.11.

Early Permian. Section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

HYPOTYPE YPM 20731

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.141, tbl.(p.142), pl.22, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Near base of unit 20 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20732

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.141, tbl.(p.142), pl.22, f.3.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 24 (7 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20733

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.141, pl.22, f.4.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 13 (1 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20734

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.141,142, tbl.(p.142), pl.22, f.6.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 24 (7 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21830

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.13, tbl.(p.14), pl.1, f.10.

HYPOTYPE YPM 21831

Ross, C.A. 1962. Cushman Found. Foram. Res. Contrib. v.13, pt.1, n.236, p.13, tbl.(p.14), pl.1, f.14.

Early Permian, Leonardian, Leonard Fm. Top of NE-most knoll of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23553
Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.20, f.7.

HYPOTYPE YPM 23554

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.20, f.6.

HYPOTYPE YPM 23555

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.159, pl.20, f.8.

Early Permian, Garlock Fm, Mbr 12. Base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina* sp. B**

HYPOTYPE YPM 21249

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.143, pl.16, f.1.

HYPOTYPE YPM 21250

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.143, tbl.(p.143), pl.16, f.2.

HYPOTYPE YPM 21251

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.143, tbl.(p.143), pl.16, f.3.

HYPOTYPE YPM 21252

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.143, tbl.(p.143), pl.16, f.4.

HYPOTYPE YPM 21253

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.143, pl.16, f.5.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 2 (18 ft thick), section 3, measured up lower portion of Dugout Mountain, due S of main peak, and about 0.33 mi SW of section 26, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23569

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.160, pl.20, f.11.

HYPOTYPE YPM 23570

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.160, tbl.1, pl.20, f.10.[a]

Early Permian, Garlock Fm, Mbr 12. About 30 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

HYPOTYPE YPM 24229

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.160, pl.20, f.12.

Early Permian, Garlock Fm, Mbr 12. About 80 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

[a]Incorrectly cited as YPM 23572 on p.160.

***Schwagerina* sp. C**

HYPOTYPE YPM 23571

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.160, pl.20, f.5.

Early Permian, Garlock Fm, Mbr 12. About 30 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina*? sp. C**

HYPOTYPE YPM 20774

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.144, tbl.(p.144), pl.13, f.11.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 8 (4 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21265

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.144, tbl.(p.144), pl.13, f.12.

Early Permian, Wolfcampian, Neal Ranch Fm. Upper 3 ft of unit 32 (53 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina* sp. D**

HYPOTYPE YPM 23572

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.160, tbl.1, pl.20, f.9.

Early Permian, Garlock Fm, Mbr 12. About 60 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina* sp. E**

HYPOTYPE YPM 23573

Ross, C.A. and F.F. Sabins, Jr. 1966. J. Paleont. v.40, n.1, p.161, tbl.1, pl.20, f.4.

Early Permian, Garlock Fm, Mbr 12. About 80 ft above base of Mbr 12 (of Garlock Series of Dibble, 1952), 0.5 mi S of Holland Camp, El Paso Mountains, Garlock Quad., Saltdale 15 min. Quad., NE NE sec32T28SR39E, Kern Co., California, USA. Collector: Sabins, F.F. and Bartner, R.L., 12/1963.

***Schwagerina steinmanni* Dunbar and Newell**

HOLOTYPE YPM 20973

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#1), pl.2, f.3.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 17386

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, pl.2, f.1.

Early Permian. Cochabamba Basin, Cochabamba, Bolivia. Collector: Ahlfeld, F.

PARATYPE YPM 17426

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, pl.2, f.7.

PARATYPE YPM 17428

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#4), pl.2, f.10.

Early Permian. Section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

PARATYPE YPM 20974

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#2), pl.2, f.2.

PARATYPE YPM 20976

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#3), pl.2, f.8.

PARATYPE YPM 20977

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#5), pl.2, f.6.

PARATYPE YPM 20978

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, tbl.(p.461,#6), pl.2, f.5.

PARATYPE YPM 24368

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, pl.2, f.4.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

HYPOTYPE YPM 17427

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.460, pl.2, f.9.

Early Permian. Section of the Copacabana group at Tiquina Strait, at and to the SW of the village of San Pedro, Bolivia. Collector: Newell, N.D.

***Schwagerina tersa* Ross**

HOLOTYPE YPM 20684

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, tbl.(p.309), pl.1, f.6.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, tbl.(p.140), pl.15, f.15.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 9 (10 ft thick), section 11, measured up a gully near W end of Leonard Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20679

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, pl.1, f.10.

=*Schwagerina tersa*? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.15, f.9.

Early Permian, Leonardian, Leonard Fm. King's bed 8 (of his section 23), about 60 ft above locality 27, which is 2.6 mi W of hill 5060 in the Wolf Camp Hills, and one-third of the distance up from base of Glass Mountains escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20680

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, tbl.(p.309), pl.1, f.4.

=*Schwagerina tersa*? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, tbl.(p.140), pl.15, f.11.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 8 (3 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20681

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, pl.1, f.7.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.15, f.12.

HYPOTYPE YPM 20682

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, tbl.(p.309), pl.1, f.11.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, tbl.(p.140), pl.15, f.13.

Late Pennsylvanian, Gaptank Fm. Gray to brown-gray weathering limestone, unit 19 (12 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20685

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.308, tbl.(p.309).

=*Schwagerina tersa*? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, tbl.(p.140), pl.15, f.16.

Early Permian, Leonardian, Leonard Fm. King's bed 8 (of his section 23), about 60 ft above locality 27, which is 2.6 mi W of hill 5060 in the Wolf Camp Hills, and one-third of the distance up from base of Glass Mountains escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21254

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.16, f.6.

HYPOTYPE YPM 21255

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.16, f.7.

HYPOTYPE YPM 21256

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.16, f.8.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 24 (3 ft thick), section 29, starting 3.25 mi N50E of the Neal Ranch house, and NW up SW end of lower escarpment and part way up main escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Schwagerina tersa*? Ross**

HYPOTYPE YPM 20683

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.140, pl.15, f.14.

Early Permian, Leonardian, Leonard Fm. Near base of unit 4 (16 ft thick), section 11, W end of Leonard Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

See also *Schwagerina tersa* Ross.

***Schwagerina thompsoni*? Needham**

HYPOTYPE YPM 22573

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, tbl.23, tf.3, pl.23, f.1.

HYPOTYPE YPM 22574

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, tbl.23, pl.23, f.2.

HYPOTYPE YPM 22575

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, tbl.23, pl.23, f.3.

HYPOTYPE YPM 22576

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, tbl.23, pl.23, f.4.

HYPOTYPE YPM 22577

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, pl.23, f.5.

HYPOTYPE YPM 22578

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.71, pl.23, f.6.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, unit 5, composite measured section (section 8); units 1-13 SSW to NNE 0.25-mi-long section starting at base 0.25 mi SSW of Juan Peak and ending at Juan Peak; units 14-17 SW to NE 0.15-mi-long section starting 0.4 mi NNW of Juan Peak and ending on ridge top 0.5 mi N of Juan Peak, central Hueco Mountains, El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Schwagerina uddeni* Beede and Kniker**

HYPOTYPE YPM 11140A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.119, pl.13, f.1.

=*Pseudoschwagerina uddeni*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, tbl.(p.660,#3), pl.50, f.7.

=*Pseudoschwagerina uddeni*. Kaesler, R.L. 1970. Proc. N. Am. Paleont. Conv. 1969, pt.B, tf.5.

Early Permian, Wolfcampian, Wolfcamp Fm. Middle Wolfcamp Fm, near Wolfcamp, Brewster Co., Texas, USA. Collector: Schuchert, C.

HYPOTYPE YPM 11249A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.119, pl.13, f.2.

Early Permian, Wolfcampian, Wolfcamp Fm. Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 14914F

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.119, pl.13, f.3.

=*Pseudoschwagerina uddeni*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.658, pl.50, f.1(upper right).

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 12, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Schwagerina vervillei* Thompson**

HYPOTYPE YPM 20047

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.355, tbl.21, tf.4(5-70b, lower), pl.39, f.6.

HYPOTYPE YPM 20048

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.355, tbl.21, tf.4(5-70b, middle), pl.39, f.9.

HYPOTYPE YPM 21925

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.355, pl.39, f.7.

HYPOTYPE YPM 21926

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.355, tbl.21, pl.39, f.8.

HYPOTYPE YPM 21927

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.355, tbl.21, tf.4(5-70b, upper), pl.39, f.10.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 87 ft above base of unit A70, 590 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Skinnerina typicalis* Ross**

HOLOTYPE YPM 22024

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, tbl.1, pl.50, f.10.

HYPOTYPE YPM 21849

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, pl.50, f.3,11.

HYPOTYPE YPM 21901

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, pl.50, f.5.

Middle Permian, Guadalupian, Word Fm. Float, unit 15 (17 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 4/5/1962.

HYPOTYPE YPM 21902

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, tbl.1, pl.50, f.4.

Middle Permian, Guadalupian, Word Fm. At 35 ft above base of unit 33 (80 ft thick), section 5, measured N up W slope of hill about 1 mi NW of hill 5779, which is about 2 mi NW of Leonard Mountain, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 21904

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, tbl.1, pl.50, f.6.

HYPOTYPE YPM 22021

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, tbl.1, pl.50, f.7.

Middle Permian, Guadalupian, Word Fm. Float, unit 15 (17 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 4/5/1962.

HYPOTYPE YPM 22022

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, tbl.1, pl.50, f.8.

Middle Permian, Guadalupian, Word Fm. At 12 ft above base of unit 15 (17 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 1959.

HYPOTYPE YPM 22023

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, pl.50, f.9.

HYPOTYPE YPM 22025

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, pl.50, f.12.

HYPOTYPE YPM 22026

Ross, C.A. 1964. J. Paleont. v.38, n.2, p.314, pl.50, f.13.

Middle Permian, Guadalupian, Word Fm. Float, unit 15 (17 ft thick), section 7, 5-mi-long section measured NW across S side of Dugout Mountain, and on NW toward Caddo-Gage Ranch house, and on NW to small peak at base of Del Norte Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A., 4/5/1962.

See also *Polydiexodina? rotundata* Dunbar and Skinner.

***Spirolocammina planula* Eicher**

HOLOTYPE YPM 20451

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.72, pl.6, f.1a-1c.

Early Cretaceous, Shell Creek Shale. Unit 5, 7.0 ft, section 5, SW flank of Lucerne Anticline, E of Big Horn River, SW sec16T43NR94W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

PARATYPE YPM 20452

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.72, pl.6, f.2a,2b.

Early Cretaceous, Shell Creek Shale. At 30-45 ft above base of unit 23, section 9, E of Thermopolis, 0.4 mi S of oil field road, NW sec10T42NR94W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

***Spirolocammina subcircularis* (Tappan)**

HYPOTYPE YPM 20449

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.73, pl.5, f.20a,20b.

HYPOTYPE YPM 20450

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.73, pl.5, f.19a,19b.

Early Cretaceous, Thermopolis Shale. At 0.5 ft above bentonite, section 27, Dutton Basin, 1 mi E of uranium mine road, NE sec18T33NR89W, Fremont Co., Wyoming, USA. Collector: Eicher, D.L.

***Staffella fountaini* Dunbar and Skinner**

SYNTYPE YPM 20900

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.597, pl.46, f.16,17.[a]

SYNTYPE YPM 20901A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.597, pl.46, f.18,20.

SYNTYPE YPM 20901B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.597, pl.46, f.19.

Middle Permian, Guadalupian, Carlsbad Limestone. At 2.2 mi N of Guadalupe Peak, on N wall of Pine Spring Canyon, halfway from Bush Mountain to head of trail leading down into canyon, Culberson Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 16536

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.9.

HYPOTYPE YPM 16537

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.13.

HYPOTYPE YPM 16538

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.10.

Middle Permian. Bed 2 of Malascachas section, limestone layer 2000 m S47W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16539A

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.11, pl.10, f.16.

HYPOTYPE YPM 16539B

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.12.

HYPOTYPE YPM 16540

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.15.

Middle Permian. About bed 7 of Difunta section and approximately equivalent to the Pichaguilla Limestone, limestone layer 2400 m S02W of Cerro Pichaguilla, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

HYPOTYPE YPM 16541

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.38, pl.9, f.14.

Middle Permian. Bed 2 of Malascachas section, limestone layer 2000 m S47W of Noria de Malascachas, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

[a]Figures show 2 views of the same specimen, not 2 specimens as implied by the plate explanation.

***Staffella lacunosa* Dunbar and Skinner**

SYNTYPE YPM 15156A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598, pl.52, f.9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

SYNTYPE YPM 15156B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598, pl.52, f.10.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

SYNTYPE YPM 15158

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598, pl.52, f.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

SYNTYPE YPM 15158A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

SYNTYPE YPM 15159A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598, pl.52, f.12.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

SYNTYPE YPM 15159B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.598, pl.52, f.13.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91.

Early Permian, Leonardian, Leonard Fm. Basal Leonard (about 450 ft above base), 1.5 mi W and a little N of Gaptank, Pecos Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 22579

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.72, tbl.24, pl.24, f.1.

HYPOTYPE YPM 22580

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.72, tbl.24, pl.24, f.2.

HYPOTYPE YPM 22581

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.72, pl.24, f.3.

HYPOTYPE YPM 22592

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.72, tbl.24.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm. NW side of peak of hill 5460 on ridge N of Powwow Canyon, and 1.1 mi NE of Powwow Tank, and 1.0 mi N of US Rt 62-180, central Hueco Mountains, Helms West Well 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Staffella*? *lacunosa* Dunbar and Skinner**

HYPOTYPE YPM 20781

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91, tbl.(p.92).

Early Permian, Leonardian, Leonard Fm. Near top of unit 35 (28 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20783

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91, tbl.(p.92), pl.29, f.3.

HYPOTYPE YPM 20787

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.91, tbl.(p.92), pl.29, f.2.

Late Pennsylvanian, Gaptank Fm. Gray to brown-gray weathering limestone, unit 19 (12 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Staffella* sp.**

HYPOTYPE YPM 26335D

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.7.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Staffella*(?) sp.**

HYPOTYPE YPM 20784

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.93, tbl.(p.93), pl.29, f.1.

Late Pennsylvanian, Gaptank Fm. Gray to brown-gray weathering limestone, unit 19 (12 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 26657

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1409, pl.173, f.13.

Late Pennsylvanian, Horquilla Limestone. At 491 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25

mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

***Staffella* spp.**

HYPOTYPE YPM 23422A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, tf.4(9, bed 24), pl.21, f.16.

HYPOTYPE YPM 23422B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.184, pl.21, f.17.

Pennsylvanian, Horquilla Limestone. At 610 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

***Staffella subacuta* Dunbar**

HOLOTYPE YPM 16549D

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.12,15 (upper right).

PARATYPE YPM 16542

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, tbl.(p.39,#1), pl.10, f.8, pl.11, f.1.

PARATYPE YPM 16543

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, tbl.(p.39,#4), pl.10, f.9.

PARATYPE YPM 16544

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, tbl.(p.39,#3), pl.10, f.10.

PARATYPE YPM 16546

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.11.

PARATYPE YPM 16547

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, tbl.(p.39,#5), pl.10, f.13.

PARATYPE YPM 16548

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, tbl.(p.39,#6), pl.10, f.14.

PARATYPE YPM 16549A

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (upper leftmost).

PARATYPE YPM 16549B

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (upper middle left).

PARATYPE YPM 16549C

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (upper center).

PARATYPE YPM 16549E

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (cut off at right).

PARATYPE YPM 16549F

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (lower leftmost).

PARATYPE YPM 16549G

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (lower middle left).

PARATYPE YPM 16549H

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (lower middle right).

PARATYPE YPM 16549J

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39, pl.10, f.15 (lower rightmost).

PARATYPE YPM 16549

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.39

Middle Permian. Bed 17 of Difunta section, alternating shale and graywacke, 60 m N35 E of La Difunta, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

***Sumatrina annae* (Voltz)**

HYPOTYPE YPM 14971B

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.3b.

Permian. Near Chiang Mia, Thailand. Collector: Heim, A.

***Thompsonella rugosa* Skinner and Wilde**

PARATYPE? YPM 50060

Skinner, J.W. and G.L. Wilde. 1965. Univ. Kans. Paleont. Contrib. Protozoa, Art.6, p.26.[3]

Early Permian, Wolfcampian, McCloud Limestone. At 1185 ft above base of McCloud, from a section up the W face of Ellery Mountain, immediately E of the McCloud Guard Station, Shasta Co., California, USA.

[a]YPM 50060 is marked as a paratype in Dunbar's handwriting, but was not specifically cited in the original description.

***Triticites acutuloides* Ross**

HOLOTYPE YPM 23576

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, tf.7, pl.141, f.5.

PARATYPE YPM 23574

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.1.

PARATYPE YPM 23575

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.2,3.

PARATYPE YPM 23577

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.6.

PARATYPE YPM 23578

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.9,10.

Late Pennsylvanian, Gaptank Fm. Gray weathering limestone, fine-grained organic fragmental, upper part of unit 17 (75 ft thick), section 43, beginning 1.5 mi SSW of Gaptank, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24233

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.4.

PARATYPE YPM 24234

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.7.

PARATYPE YPM 24235

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.8.

Late Pennsylvanian, Gaptank Fm. Dark gray massive limestone, unit 21 (21 ft thick), section 38, 0.5 mi E of the Moore Ranch Road, about 1.5 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites acutus* Dunbar and Condra**

SYNTYPE YPM 11148A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.113, tf.5, pl.9, f.7.

SYNTYPE YPM 11148B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.113, pl.9, f.8.

Late Pennsylvanian, Dover Limestone. Under steel bridge, NE of Hamburg, SE sec13T67NR42W, Fremont Co., Iowa, USA. Collector: Condra, G.E. and others.

SYNTYPE YPM 11149A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.113, pl.9, f.5.

SYNTYPE YPM 11149B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.113, pl.9, f.6.

Late Pennsylvanian, Pierson Point Shale. Pony Creek Bridge, S of Falls City, SW sec24T1NR16E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.

***Triticites arcuosoides* Ross**

HOLOTYPE YPM 26588

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.23.

PARATYPE YPM 26575

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.170, f.9-11.

Late Pennsylvanian, Earp Fm. At 73 ft above base of Earp, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

PARATYPE YPM 26576

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.13.

PARATYPE YPM 26577

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.17.

PARATYPE YPM 26578

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.14.

PARATYPE YPM 26579

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.15.

PARATYPE YPM 26580

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.16.

Late Pennsylvanian, Earp Fm. At 27 ft above base of Earp, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

PARATYPE YPM 26581

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.18.

PARATYPE YPM 26582

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.24.

PARATYPE YPM 26583

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.25.

PARATYPE YPM 26584

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.28.

PARATYPE YPM 26585

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.19.

PARATYPE YPM 26586

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.20.

PARATYPE YPM 26587

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.22.

PARATYPE YPM 26589

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.26.

PARATYPE YPM 26590

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.27.

PARATYPE YPM 26591

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419, pl.174, f.21.

Late Pennsylvanian, Earp Fm. At 73 ft above base of Earp, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

PARATYPE YPM 50054–50057

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1419.[a]

Late Pennsylvanian, Earp Fm. At 33 ft above base of Earp, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

[a]Specimens are labeled as paratypes, though not cited or figured.

***Triticites asperoides* Ross**

HOLOTYPE YPM 23604

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.23,24.

Late Pennsylvanian, Gaptank Fm. Gray weathering limestone, unit 12 (32 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23595

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.17.

Late Pennsylvanian, Gaptank Fm. Medium-gray, clay-rich limestone, uneven bedding, 3-6 inch beds, unit 6 (18 ft thick), section 35, measured up a stream gully about 100 yd E of the prominent limestone cliff just E of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23602

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.19.

PARATYPE YPM 23603

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.16.

Late Pennsylvanian, Gaptank Fm. Gray weathering limestone, unit 12 (32 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23610

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.18.

PARATYPE YPM 23611

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.22,25.

Late Pennsylvanian, Gaptank Fm. Dark gray, organic fragmental limestone, unit 13 (12 ft thick), section 31, S side hill 4752, 2.5 mi N65W of the Montgomery Ranch

house, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23612

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.20.

PARATYPE YPM 23613

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.21.

Late Pennsylvanian, Gaptank Fm. Gray weathering, organic fragmental limestone, unit 3 (9 ft thick), section 26, beginning 2.5 mi N40E of the Neal Ranch house, base of the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites beedei* Dunbar and Condra**

SYNTYPE YPM 11076A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.5, f.1.

SYNTYPE YPM 11076B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.5, f.2.

Late Pennsylvanian, Deer Creek Limestone. Quarry NE of Nehawka, Nehawka Quad., NW sec17T10NR13E, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

SYNTYPE YPM 11093A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.6, f.7.

SYNTYPE YPM 11093B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.6, f.8.

Late Pennsylvanian, Ervine Creek Limestone. Myers Quarry, E of Weeping Water, Weeping Water Quad., Cass Co., Nebraska, USA.

SYNTYPE YPM 11093C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.6, f.9.

SYNTYPE YPM 11093D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.96, pl.6, f.10.

Late Pennsylvanian, Shawnee Grp, Deer Creek Limestone. Myers Quarry, E of Weeping Water, Cass Co., Nebraska, USA.

HYPOTYPE YPM 20544

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, pl.4, f.7.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20545

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, tbl.(p.98), pl.4, f.8.

HYPOTYPE YPM 20546

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, pl.4, f.9.

Late Pennsylvanian, Gaptank Fm. Light gray weathering shale, upper 3 ft of unit 13 (18 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20547

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, tbl.(p.98), pl.4, f.10.

Late Pennsylvanian, Gaptank Fm. Pink to brown weathering calcarenite, lower part of unit 19 (12 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20548

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, tbl.(p.98), pl.4, f.11.

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1153, tf.7 (bed below J).

Late Pennsylvanian, Gaptank Fm. Light gray weathering shale, upper 3 ft of unit 13 (18 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20549

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.97, pl.4, f.12.

Late Pennsylvanian, Gaptank Fm. Pink to brown weathering calcarenite, lower part of unit 19 (12 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites bensonensis* Ross and Tyrrell**

HOLOTYPE YPM 23529

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tbl.3, tf.5(1, bed 1-23,1-24), pl.77, f.27.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23528

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, pl.77, f.26.

Pennsylvanian, Earp Fm, lower member. At 63 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23530

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tbl.3, tf.5(1, bed 1-25,1-26), pl.77, f.29.

PARATYPE YPM 23531

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, pl.77, f.31.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23532

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tbl.3, pl.77, f.28.

Pennsylvanian, Earp Fm, lower member. At 81 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23533

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, pl.77, f.30.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites bensonensis* (?) Ross and Tyrrell**

HYPOTYPE YPM 26703

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.7.

HYPOTYPE YPM 26704

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.12.

HYPOTYPE YPM 26705

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.8.

HYPOTYPE YPM 26706

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.9.

HYPOTYPE YPM 26707

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.10.

HYPOTYPE YPM 26708

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.11.

Late Pennsylvanian, Horquilla Limestone. At 963 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

***Triticites berryi* (Berry)**

HYPOTYPE YPM 21070

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, pl.8, f.8.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

See also *Fusulina berryi* Berry.

***Triticites boliviensis* Dunbar and Newell**

HOLOTYPE YPM 21055

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#4), pl.9, f.4.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 17448

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.2.

Early Permian. Yaurichambi, Cochabamba, Bolivia. Collector: Newell, N.D.

PARATYPE YPM 21056

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#6), pl.9, f.9.

PARATYPE YPM 21057

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.5.

PARATYPE YPM 21058

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#5), pl.9, f.11.

PARATYPE YPM 21059

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#3), pl.9, f.1.

PARATYPE YPM 21060A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.3 (upper right).

PARATYPE YPM 21060B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#1), pl.9, f.3(center).

PARATYPE YPM 21060C

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.3 (left).

PARATYPE YPM 21061

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.6.

PARATYPE YPM 21062

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#2), pl.9, f.7.

PARATYPE YPM 21067

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, tbl.(p.482,#7), pl.9, f.10.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Triticites boliviensis*? Dunbar and Newell**

HYPOTYPE YPM 21063

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.481, pl.9, f.8.

Early Permian. Yaurichambi, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Triticites burgessae* Burma**

HYPOTYPE YPM 20538

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, tbl.(p.99), pl.4, f.1.

HYPOTYPE YPM 20539

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, tbl.(p.99), pl.4, f.2.

HYPOTYPE YPM 20540

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, tbl.(p.99), pl.4, f.3.

HYPOTYPE YPM 20541

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, tbl.(p.99), pl.4, f.4.

HYPOTYPE YPM 20542

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, pl.4, f.5.

HYPOTYPE YPM 20543

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.99, tbl.(p.99), pl.4, f.6.

Late Pennsylvanian, Gaptank Fm. Calcarenite near middle of unit 10 (195 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites callosus* Dunbar and Henbest**

HYPOTYPE YPM 23518

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, tf.5(1, bed 1-20), pl.77, f.16.

HYPOTYPE YPM 23519

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.77, f.17.

HYPOTYPE YPM 23520

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.77, f.18.

Pennsylvanian, Horquilla Limestone. At 1115 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites* cf. *T. callosus* Dunbar and Henbest**

HYPOTYPE YPM 21887

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.347, tbl.12, tf.4(9-7).

Late Pennsylvanian, Virgilian, Horquilla Limestone. At 280 ft below top of Horquilla, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 22545

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.74, tbl.25, pl.17, f.5.

HYPOTYPE YPM 22546

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.74, tbl.25, pl.17, f.6.

HYPOTYPE YPM 22547

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.74, tbl.25, pl.17, f.7.

HYPOTYPE YPM 22548

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.74, tbl.25, pl.17, f.8.

Early Permian, Wolfcampian, Magdalena Limestone, Bursum beds. Bursum beds (below *Pseudoschwagerina* beds), upper part of Upper Division of Magdalena, 0.5 mi WNW of hill 5226, and 0.7mi NNE of hill 4849, and about 2 mi S of Hueco Tanks, central Hueco Mountains, Hueco Tanks 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

***Triticites cameratoides* Ross**

HOLOTYPE YPM 23623

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.15,16.

PARATYPE YPM 23624

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.13.

Late Pennsylvanian, Gaptank Fm. Light to medium gray limestone, mostly calciculite, unit 8 (6 ft thick), section 27, low escarpment remnant 2.5 mi N50E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23626

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.20.

PARATYPE YPM 23627

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.21.

PARATYPE YPM 23628

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.14.

PARATYPE YPM 23629

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.17.

Late Pennsylvanian, Gaptank Fm. Medium to light gray limestone, organic fragmental, unit 13 (2.5 ft thick), section 29, starting 3.25 mi N50E of the Neal Ranch house and NW up SW end of lower escarpment and part way up main escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23630

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.11,12.

Late Pennsylvanian, Gaptank Fm. Light to medium gray limestone, mostly calciculite, unit 8 (6 ft thick), section 27, low escarpment remnant 2.5 mi N50E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23631

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, tf.7, pl.141, f.19.

PARATYPE YPM 24236

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1166, pl.141, f.18.

Late Pennsylvanian, Gaptank Fm. Light gray limestone, unit 3 (3 ft thick), section 28, 3.2 mi N45E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites capaxoides* Ross**

HOLOTYPE YPM 24226

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.6,11.

Late Pennsylvanian, Gaptank Fm. Light gray limestone, unit 15 (24 ft thick), section 34, 0.25 mi W of the Brooks Ranch Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23614

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.4.

PARATYPE YPM 23682

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.2.[a]

Late Pennsylvanian, Gaptank Fm. Brown-gray weathering limestone, unit 23 (12 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24210

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, tf.7, pl.142, f.5.

Late Pennsylvanian, Gaptank Fm. Pink to brown weathering calcarenite, lower part of unit 19 (12 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24211

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.7.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24215

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.8.

Late Pennsylvanian, Gaptank Fm. Yellow buff weathering limestone, unit 16 (20 ft thick), section 25, up to hill 4952, up S side of E end of Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24221

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.1.

PARATYPE YPM 24224

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.3.

Late Pennsylvanian, Gaptank Fm. Light gray limestone, unit 15 (24 ft thick), section 34, 0.25 mi W of the Brooks Ranch Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24238

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.9.

PARATYPE YPM 24239

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.142, f.10.

Late Pennsylvanian, Gaptank Fm. Light green-gray limestone, unit 16 (7 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

[a]Incorrectly cited as YPM 23862.

Triticites celebroides Ross

HOLOTYPE YPM 23586

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, tf.7, pl.141, f.26,31.

PARATYPE YPM 23584

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.24.

PARATYPE YPM 23585

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.25.

PARATYPE YPM 23587

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.22.

PARATYPE YPM 23588

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.23.

PARATYPE YPM 23589

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, tf.7, pl.141, f.27.

PARATYPE YPM 23591

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.28,29.

PARATYPE YPM 24237

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, pl.141, f.30.

Late Pennsylvanian, Gaptank Fm. Calcarenite near

middle of unit 10 (195 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites cellamagnus* Thompson and Bissell**

HYPOTYPE YPM 20031

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.345, tbl.9, tf.(5-68a), pl.36, f.15.

HYPOTYPE YPM 21918

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.345, tbl.9, pl.36, f.13.

HYPOTYPE YPM 21919

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.345, tbl.9, tf.4(5-68b), pl.36, f.14.

Late Pennsylvanian, Virgilian, Earp Fm. At 14 ft above base of unit A68, 450 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Triticites collus* Burma**

HYPOTYPE YPM 26666

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.19,20.

HYPOTYPE YPM 26667

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.21.

HYPOTYPE YPM 26668

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.22.

HYPOTYPE YPM 26669

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.23.

HYPOTYPE YPM 26670

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.24.

HYPOTYPE YPM 26671

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.25.

HYPOTYPE YPM 26672

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.26.

HYPOTYPE YPM 26673

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.27.

HYPOTYPE YPM 26674

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.28.

HYPOTYPE YPM 26675

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.29.

Late Pennsylvanian, Horquilla Limestone. At 685 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

HYPOTYPE YPM 26676

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.30.

HYPOTYPE YPM 26677

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.31.

HYPOTYPE YPM 26678
Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.32.

HYPOTYPE YPM 26679

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.33.

Late Pennsylvanian, Horquilla Limestone. At 698 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

HYPOTYPE YPM 26680

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.34.

HYPOTYPE YPM 26681

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.35.

HYPOTYPE YPM 26682

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.36.

HYPOTYPE YPM 26683

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.37.

HYPOTYPE YPM 26684

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.38.

HYPOTYPE YPM 26685

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.39.

HYPOTYPE YPM 26686

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.40.

Late Pennsylvanian, Horquilla Limestone. At 742 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

HYPOTYPE YPM 26687

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1417, pl.173, f.41.

Late Pennsylvanian, Horquilla Limestone. At 782 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

***Triticites comptus* Ross**

HOLOTYPE YPM 20551

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tbl.(p.302), tf.2, pl.1, f.5.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, tbl.(p.101), tf.10, pl.4, f.14.

Pennsylvanian, Gaptank Fm. Unit 1 (2 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20550

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tbl.(p.302), pl.1, f.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, tbl.(p.101), pl.4, f.13.

Ross, C.A. 1965. J. Paleont. v.39, n.6, tf.7.

Pennsylvanian, Gaptank Fm. Unit 1 (22 ft thick), section 29, starting 3.25 mi N50E of the Neal Ranch house, and NW up SW end of lower escarpment and part way up main escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20552

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tbl.(p.302), pl.1, f.3.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, tbl.(p.101), pl.4, f.15.

Pennsylvanian, Gaptank Fm. Upper 3 ft of unit 1 (46 ft thick), section 23, due N of Neal Ranch house, up S slope of E Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20553

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, pl.4, f.16.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 10 (8 ft thick), section 1, measured up the SW corner of the SW flank of Dugout Mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20554

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tbl.(p.302).

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, pl.4, f.17.

Pennsylvanian, Gaptank Fm. Upper 3 ft of unit 1 (46 ft thick), section 23, due N of Neal Ranch house, up S slope of E Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20555

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tbl.(p.302), pl.1, f.1.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.100, tbl.(p.101), pl.4, f.18.

Pennsylvanian, Gaptank Fm. Unit 1 (2 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites confertoides* Ross**

HOLOTYPE YPM 24240

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, tf.7, pl.142, f.15,20,22.

PARATYPE YPM 23648

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.13.

PARATYPE YPM 23649

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.14.

PARATYPE YPM 23650

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.12.

Late Pennsylvanian, Gaptank Fm. Medium-gray, clay-rich limestone, uneven bedding, 3-6 inch beds, unit 6 (18 ft thick), section 35, measured up a stream gully about 100 yd E of the prominent limestone cliff just E of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23651

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.17.

Late Pennsylvanian, Gaptank Fm. Gray weathering limestone, unit 12 (32 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23652

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.16.

Late Pennsylvanian, Gaptank Fm. Green-gray shale, unit 12 (8 ft thick), section 35, measured up a stream gully about 100 yd E of the prominent limestone cliff just E of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23653

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.143, f.15.

Late Pennsylvanian, Gaptank Fm. Gray weathering limestone, unit 12 (32 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24241

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.18.

PARATYPE YPM 24242A

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1168, pl.142, f.19,21.

Late Pennsylvanian, Gaptank Fm. Medium-gray, clay-rich limestone, uneven bedding, 3-6 inch beds, unit 6 (18 ft thick), section 35, measured up a stream gully about 100 yd E of the prominent limestone cliff just E of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

Triticites coronadoensis Ross and Tyrrell

HOLOTYPE YPM 23510

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tbl.3, tf.5(1, bed 1-21,1-22), pl.77, f.3.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23511

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tbl.3, tf.4(1, bed 1-18), pl.77, f.6.

Pennsylvanian, Horquilla Limestone. At 930 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23512

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, pl.77, f.10.

PARATYPE YPM 23513

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.629, tf.5(1, bed 1-9), pl.77, f.11.

Pennsylvanian, Horquilla Limestone. At 960 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

Triticites creekensis Thompson

HYPOTYPE YPM 21889

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.7, pl.35, f.17.

HYPOTYPE YPM 21890

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.7, tf.4(9-14), pl.35, f.18.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 640 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21891

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.7, tf.4(9-23, left), pl.35, f.19.

HYPOTYPE YPM 21892

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tf.4(9-23, right), pl.35, f.20.

Early Permian, Wolfcampian, Earp Fm. At 1870 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21893

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tf.4(9-20).[a]

Early Permian, Wolfcampian, Earp Fm. At 1410 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21914

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tf.4(9-18).

Early Permian, Wolfcampian, Earp Fm. At 1305 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Not pl.35, f.21.

***Triticites cuchilloensis* Needham**

HYPOTYPE YPM 21876

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.338, tbl.2, tf.4(9-9), pl.35, f.9.

HYPOTYPE YPM 21877

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.338, pl.35, f.10.

HYPOTYPE YPM 21878

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.338, pl.35, f.11.

HYPOTYPE YPM 21879

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.338, tbl.2, pl.35, f.12.

Late Pennsylvanian, Virgilian, Horquilla Limestone. At 60 ft below top of Horquilla, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Triticites cullomensis* Dunbar and Condra**

SYNTYPE YPM 11085A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.6.

LECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.16.[a]

LECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

LECTOTYPE. Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339.

SYNTYPE YPM 11085B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.13.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

SYNTYPE YPM 11085C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.7.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

SYNTYPE YPM 11085D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.9.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

Pennsylvanian, Cullom Limestone. At 1.25 mi N of Big Springs, Kansas, NW sec35T13NR12E, Shawnee Co., Kansas, USA. Collector: Condra, G.E. and others.

SYNTYPE YPM 11085E

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.14.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

SYNTYPE YPM 11085F

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.15.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

Late Pennsylvanian, Beil Limestone. At 1.5 mi N of Big Springs, Kansas, NW sec35T13NR12E, Shawnee Co., Kansas, USA. Collector: Condra, G.E. and others.

SYNTYPE YPM 11089A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.8.[b]

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

SYNTYPE YPM 11089B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.10.[b]

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

Pennsylvanian, Meadow Limestone. Upper part of Meadow, 0.5 mi SE of Wabash, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

SYNTYPE YPM 11103A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.93, pl.5, f.5.

PARALECTOTYPE? Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136.

PARALECTOTYPE. Thompson, M.L., G.J. Verville and H.J. Bissell. 1950. J. Paleont. v.24, n.4, p.457.

Pennsylvanian, Cullom Limestone. Missouri River Bluffs, between Forbes and Nodoway, SW sec32T13NR13E, Holt Co., Missouri, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 16501A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.17.

HYPOTYPE YPM 16501B

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.136, pl.23, f.18.

Late Pennsylvanian, Ames Limestone Mbr. Brilliant Cut, sec10T16NR30W, Allegheny Co., Pennsylvania, USA. Collector: Darrah, W.C.

HYPOTYPE YPM 20070

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tf.4(5-23, right), pl.35, f.15.

HYPOTYPE YPM 20071

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tf.4(5-23, left).

Late Pennsylvanian, Virgilian, Horquilla Limestone. Unit A23, 205 ft below top of Horquilla, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20596

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, tbl.(p.102), pl.8, f.3.

Late Pennsylvanian, Gaptank Fm. Brown-gray weathering limestone, unit 23 (12 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20597

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, pl.8, f.4.

Pennsylvanian, Gaptank Fm. At 65 ft above base of gray limestone, at notch in hill 5060, Wolf Camp Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20600

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, pl.8, f.7.

Pennsylvanian, Gaptank Fm. At 30 ft above base of gray limestone, hill 5060, Wolf Camp Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20602

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, pl.8, f.9.

Pennsylvanian, Gaptank Fm. At 65 ft above base of gray limestone, at notch in hill 5060, Wolf Camp Hills, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21262

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, tbl.(p.102), pl.5, f.1.

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1153, tf.7 (bed below J).

Pennsylvanian, Gaptank Fm. Unit 7 (8 ft thick), section 24, N15E of Neal Ranch house, up S side of Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21263

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, tbl.(p.102), pl.5, f.2.

Pennsylvanian, Gaptank Fm. At 33 ft above base of unit 2 (74 ft thick), section 24, N15E of Neal Ranch house, up S side of Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21264

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.102, tbl.(p.102), pl.5, f.3.

Pennsylvanian, Gaptank Fm. Base of unit 5 (33 ft thick), section 23, due N of Neal Ranch house, up S slope of E Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21885

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tbl.3, tf.4(9-7), pl.35, f.13.

HYPOTYPE YPM 21886

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tbl.3, pl.35, f.14.

HYPOTYPE YPM 21888

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, pl.35, f.16.

Late Pennsylvanian, Virgilian, Horquilla Limestone. At 280 ft below top of Horquilla, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Dunbar and Henbest (1942) state on p.135 that YPM 11085A "should be considered the holotype," but figure it as a cotype.

[b]Figures 8 and 10 on pl. 5 show 2 different specimens, not 2 views of the same specimen as stated in the plate explanation.

Triticites cf. *T. cullomensis* Dunbar and Condra

HYPOTYPE YPM 23468

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.76, f.6.

Late Pennsylvanian, Horquilla Limestone. Red-weathering, fusulinid-bearing limestone, 40 ft below top of Horquilla, measured section, W end of Middle Canyon, and about 1.3 mi ENE of Apache Peak, central Whetstone Mountains, SE NW sec33T18SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

Triticites cullomensis pygmaeus Dunbar and Condra

SYNTYPE YPM 11060A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, pl.5, f.3.

SYNTYPE YPM 11060B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, pl.5, f.4.

SYNTYPE? YPM 9064A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.95.[a]

=*Triticites pygmaeus*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#2), pl.48, f.17.

SYNTYPE? YPM 9064B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.95.[a]

=*Triticites pygmaeus*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#1), pl.48, f.18.

SYNTYPE? YPM 9064C–9064F

=*Triticites pygmaeus*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614.[b]

Late Pennsylvanian, Lane Shale. Louisville, Cass Co., Nebraska, USA.

SYNTYPE? YPM 11060C, 11060D

=*Triticites pygmaeus*. Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614.[b]

Late Pennsylvanian, Lane Shale. [*Derbya* ledge], National Stone Quarry, Louisville, Cedar Creek Quad., SW sec7T12NR12E, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

[a]YPM 9064A and 9064B are cited by Dunbar and Skinner (1937) as cotypes of *Triticites pygmaeus* (Dunbar and Condra), although they were neither figured nor mentioned in the original description of *Triticites cullomensis pygmaeus* Dunbar and Condra, 1927.

[b]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Triticites elegantoides* Ross**

HOLOTYPE YPM 24202

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, tf.7, pl.143, f.3.

Late Pennsylvanian, Gaptank Fm. Light green-gray limestone, unit 16 (7 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23593

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.8.

PARATYPE YPM 23594

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.2.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23597

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.4.

Late Pennsylvanian, Gaptank Fm. Light green-gray limestone, unit 16 (7 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23598

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.6.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24203

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.5.

Late Pennsylvanian, Gaptank Fm. Light green-gray limestone, unit 16 (7 ft thick), section 32, 1.25 mi S60W of the Brooks Ranch house, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24206

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.7.

Late Pennsylvanian, Gaptank Fm. Yellow buff weathering limestone, unit 16 (20 ft thick), section 25, up to hill 4952, up S side of E end of Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24260

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.1.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites elegantoides*? Ross**

HYPOTYPE YPM 24219

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1167, tf.7, pl.143, f.9.

Late Pennsylvanian, Gaptank Fm. Gray to brown-gray weathering limestone, unit 19 (12 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 24227

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1169, pl.143, f.10.

Late Pennsylvanian, Gaptank Fm. Yellow buff weathering limestone, unit 16 (20 ft thick), section 25, up to hill 4952, up S side of E end of Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites exiguus* (Schellwien and Staff)**

HYPOTYPE YPM 11071A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.111, pl.8, f.2.

=*Triticites nebraskensis* Thompson. SYNTYPE. Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.281.

HYPOTYPE YPM 11071B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.111, pl.8, f.5.

=*Triticites nebraskensis* Thompson. SYNTYPE. Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.281.

HYPOTYPE YPM 11102A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.111, pl.8, f.3.

=*Triticites nebraskensis* Thompson. SYNTYPE. Thompson, M.L. 1934. Iowa Univ. Stud. Nat. Hist. v.16, n.4, p.281.

Late Pennsylvanian, Lecompton Limestone. Richfield Quarry, 2.5 mi S of Richfield, Sarpy Co., Nebraska, USA. Collector: Condra, G.E. and others, 9/6/1875.

***Triticites fresnalensis* Needham**

HYPOTYPE YPM 23514

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, pl.77, f.12.

HYPOTYPE YPM 23515

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, pl.77, f.13.

HYPOTYPE YPM 23516

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, tf.5(1,bed1-17), pl.77, f.14.

HYPOTYPE YPM 23517

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, pl.77, f.15.

Pennsylvanian, Horquilla Limestone. At 915 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites gallowayi* Needham**

HYPOTYPE YPM 23669

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.15.

Late Pennsylvanian, Gaptank Fm. Gray to brown-gray weathering limestone, biohermal shell hash, unit 4 (23 ft thick), section 27, 2.5 mi N50E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23672

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.17.

HYPOTYPE YPM 23673

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.16.

Late Pennsylvanian, Gaptank Fm. Yellow-brown weathering sandstone, with interbedded shales and siltstones, unit 1 (30 ft thick), section 27, 2.5 mi N50E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23675

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.18.

HYPOTYPE YPM 23676

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.19.

Late Pennsylvanian, Gaptank Fm. Unit 20 (45 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23677

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.14.

Late Pennsylvanian, Gaptank Fm. Rubbly light gray weathering limestone, lower 2 ft of unit 7 (4 ft thick), section 23, due N of Neal Ranch house, up S slope of E Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 24247

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.20.

Late Pennsylvanian, Gaptank Fm. Yellow-brown weathering sandstone, with interbedded shales and siltstones, unit 1 (30 ft thick), section 27, 2.5 mi N50E of the Neal Ranch house, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites gilaensis* Ross**

HOLOTYPE YPM 26699

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.3.

Late Pennsylvanian, Horquilla Limestone. At 858 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

PARATYPE YPM 26688

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.42.

PARATYPE YPM 26689

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.43.

PARATYPE YPM 26690

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.44.

PARATYPE YPM 26691

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.45.

Late Pennsylvanian, Horquilla Limestone. At 772 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

PARATYPE YPM 26692

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.46.

PARATYPE YPM 26693

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.47.

PARATYPE YPM 26694

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.48.

PARATYPE YPM 26695

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.49.

PARATYPE YPM 26696

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.173, f.50.

PARATYPE YPM 26697

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.1.

PARATYPE YPM 26698

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.2.

PARATYPE YPM 26700

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.4.

PARATYPE YPM 26701

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.5.

PARATYPE YPM 26702

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418, pl.174, f.6.

PARATYPE YPM 200289

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418.[a]

Late Pennsylvanian, Horquilla Limestone. At 858 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

PARATYPE YPM 200290, 200291

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1418.[a]

Late Pennsylvanian, Horquilla Limestone. At 772 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

[a]Labeled as paratype, but neither mentioned nor figured.

***Triticites irregularis* (Schellwien and Staff)**

HYPOTYPE YPM 11099A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.8, f.7.

HYPOTYPE YPM 11099B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.8, f.10.

HYPOTYPE YPM 11099C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.8, f.8.

HYPOTYPE YPM 11099D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.8, f.9.

Late Pennsylvanian, Kansas City Grp, Drum Limestone. Dekalb Limestone, Winterset, Madison Co., Iowa, USA. Collector: Porter, W.L.

HYPOTYPE YPM 11286A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.9, f.2.

HYPOTYPE YPM 11286B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.9, f.3.

HYPOTYPE YPM 50049[a]

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.108, pl.9, f.1.

Late Pennsylvanian, Canyon Grp, Brownwood Shale. At 2.5 mi W of Brownwood, Brown Co., Texas, USA. Collector: Plummer, F.B.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Triticites joensis* (Thompson)**

HYPOTYPE YPM 20559

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, tbl.(p.103), pl.5, f.4.

Late Pennsylvanian, Gaptank Fm. Medium gray to light brown weathering limestone, fine-grained organic fragmental and calcarenite in part, unit 15 (40 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20560

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, pl.5, f.5.

Pennsylvanian, Gaptank Fm. Unit 11 (40 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20561

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, tbl.(p.103), pl.5, f.6.

HYPOTYPE YPM 20562

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, tbl.(p.103), pl.5, f.8.

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1153, tf.7.

Late Pennsylvanian, Gaptank Fm. Medium gray to light brown weathering limestone, fine-grained organic fragmental and calcarenite in part, unit 15 (40 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20563

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, tbl.(p.103), pl.5, f.10.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 18 (12 ft thick), section 17, S side of hill 5816, between top of intrusion and a point three-quarters of the way up to summit, Hess Ranch horst, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20564

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.103, pl.5, f.13.

Pennsylvanian, Gaptank Fm. Unit 11 (40 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites koschmanni* Skinner**

HYPOTYPE YPM 20573

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, tbl.(p.105), pl.6, f.5.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 2 (8 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20574

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, pl.6, f.6.

Pennsylvanian, Gaptank Fm. Unit 1 (5.5 ft thick), section 40, N along Allison-Moore boundary fence, 0.7

mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20575

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, tbl.(p.105), pl.6, f.7.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (5 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20576

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, tbl.(p.105), pl.6, f.8.

Pennsylvanian, Gaptank Fm. Unit 1 (5.5 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20577

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, pl.6, f.9.

HYPOTYPE YPM 20578

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, tbl.(p.105), pl.6, f.10.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 2 (8 ft thick), section 41, beginning 300 yd S of Gap Tank, units 6-10 N of the Fort Stockton Road, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20579

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.105, pl.6, f.11.

Pennsylvanian, Gaptank Fm. Unit 1 (5.5 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites marathonensis* Ross**

HOLOTYPE YPM 24256

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.22,27.

PARATYPE YPM 23638

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.21.

PARATYPE YPM 23639

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.20.

PARATYPE YPM 23640

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.19.

PARATYPE YPM 23642

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.16.

PARATYPE YPM 24254

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.17.

PARATYPE YPM 24255

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.18,26.

PARATYPE YPM 24257

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.23.

PARATYPE YPM 24258

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.24.

PARATYPE YPM 24259

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.144, f.25.

Late Pennsylvanian, Gaptank Fm. Medium gray limestone, unit 10 (2 ft thick), section 35, measured up a stream gully about 100 yd E of the prominent limestone cliff just E of the Brooks Ranch house, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites mcgrewensis* Ross and Tyrrell**

HOLOTYPE YPM 23504

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.3, pl.77, f.2.

PARATYPE YPM 23503

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.3, tf.5(1, bed 1-21,1-22), pl.77, f.1.

PARATYPE YPM 23505

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, pl.77, f.5.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S

side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23506

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, pl.77, f.7.

PARATYPE YPM 23507

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.3, pl.77, f.8.

PARATYPE YPM 23508

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, pl.77, f.9.

Pennsylvanian, Horquilla Limestone. At 930 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23509

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, pl.77, f.4.

Pennsylvanian, Earp Fm, lower member. At 35 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites meeki* (Möller)**

HYPOTYPE YPM 21140B

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.45, pl.2, f.1.

Late Pennsylvanian, Tarkio Limestone. Rapids of Mill Creek, 2 mi SW of Maple Hill, SE sec26T11SR12E, Wabaunsee Co., Kansas, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 21911

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tbl.4, tf.4(9-14), pl.36, f.5.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 640 ft above base of Earp, 0.6 mi-long section measured from NNE to SSW downslope from center of section 22 at summit of hill 6463 to NW corner of section 27 along road from Portal to Paradise, and 1.75 mi NW of Portal, E side of Chiricahua Mountains, SW sec22T17SR31E, NW CORNER sec27T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21912

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339, tbl.4, tf.4(5-68b), pl.36, f.4.

Late Pennsylvanian, Virgilian, Earp Fm. At 14 ft above base of unit A68, 450 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20565

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.107, tbl.(p.105), pl.5, f.7.

Pennsylvanian. Brown limestone, one-third of the way up from base of slope near middle of ridge, section 10, section measured SW to NE along ridge, starting in gully at point about 1.4 mi SW of hill 5420 of Iron Mountain and ending due W of that hill, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20566

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.107, tbl.(p.107), pl.5, f.9.

Late Pennsylvanian, Gaptank Fm. Yellow-gray weathering limestone, unit 12 (6 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20568

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.107, tbl.(p.107), pl.5, f.12.

Early Permian, Wolfcampian, Lenox Hills Fm. Unit 17 (28 ft thick), section 31, S side hill 4752, 2.5 mi N65W of the Montgomery Ranch house, Glass Mountains, Brewster Co., Texas, USA. Collector: Ross, C.A.

See also *Triticites ventricosus* (Meek and Hayden).

***Triticites milleri*? (Thompson)**

HYPOTYPE YPM 20567

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.107, tbl.(p.107), pl.5, f.11.

Pennsylvanian, Gaptank Fm. Unit 3 (29 ft thick), section 34, 0.25 mi W of the Brooks Ranch Road, Glass

Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites moorei* Dunbar and Condra**

SYNTYPE YPM 11277A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.1, f.3, pl.9, f.4.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.533, pl.42, f.8.

SYNTYPE YPM 11277B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.11, f.1.

SYNTYPE YPM 11277C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.11, f.2.

SYNTYPE YPM 11277D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.11, f.3.

SYNTYPE YPM 11277E

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.11, f.4.

SYNTYPE YPM 11277F

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.99, pl.11, f.5.

Late Pennsylvanian, Cisco Grp, Graham Fm, South Bend Shale Mbr. South Bend Shale on Salt Creek, 1 mi W of Graham, Young Co., Texas, USA. Collector: Plummer, F.B., 1922.

***Triticites moorensis* Ross**

HOLOTYPE YPM 23633

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, tf.7(bed G), pl.144, f.6,15.

PARATYPE YPM 23634

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.7.

PARATYPE YPM 23635

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.5.

PARATYPE YPM 23636

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.4.

PARATYPE YPM 23637

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.8.

PARATYPE YPM 24251

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.9.

PARATYPE YPM 24252A

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.12,14.

PARATYPE YPM 24252B

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.10.

PARATYPE YPM 24252C

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.13.

PARATYPE YPM 24253

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.11.

Late Pennsylvanian, Gaptank Fm. Unit 4 (11 ft thick), section 36, measured about 3/8 mi W of the ranch road that leads to the high pasture on the Moore Ranch, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites nealensis* Ross**

HOLOTYPE YPM 23645

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, tf.7, pl.145, f.1,2.

Late Pennsylvanian, Gaptank Fm. Light gray weathering limestone, 15 ft above base of unit 10 (38 ft thick), section 26, beginning 2.5 mi N40E of the Neal Ranch house, base of the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 23643

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.3,4.

PARATYPE YPM 23646

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.6.

PARATYPE YPM 23647

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.7.

Late Pennsylvanian, Gaptank Fm. Light gray weathering limestone, 3 ft above base of unit 10 (38 ft thick), section 26, beginning 2.5 mi N40E of the Neal Ranch house, base of the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

PARATYPE YPM 24242B

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.5.

PARATYPE YPM 24243

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.8.

PARATYPE YPM 24244

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.9.

PARATYPE YPM 24245

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1172, pl.145, f.10.

Late Pennsylvanian, Gaptank Fm. Light gray weathering limestone, 15 ft above base of unit 10 (38 ft thick), section 26, beginning 2.5 mi N40E of the Neal Ranch house, base of the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites nebraskensis* Thompson**
See *Triticites exiguus* (Schellwien and Staff).

***Triticites nitens* Dunbar and Newell**

HOLOTYPE YPM 21071

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.483, tbl.(p.483,#2), pl.9, f.13.

PARATYPE YPM 21072

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.483, tbl.(p.483,#3), pl.9, f.16.

PARATYPE YPM 21073

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.483, tbl.(p.483,#5), pl.9, f.15.

PARATYPE YPM 21074

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.483, tbl.(p.483,#1), pl.9, f.14.

PARATYPE YPM 21075

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.483, pl.9, f.12.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Triticites obesus* (Beede)**

HYPOTYPE YPM 11097A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.102, pl.9, f.10.

Late Pennsylvanian, Elmdale Fm. Elmdale Shale, Grand Summit, Cowley Co., Kansas, USA. Collector: Twenhofel, W.H.

***Triticites ohioensis* Thompson**

HYPOTYPE YPM 20587

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, tbl.(p.108), pl.7, f.7.

Pennsylvanian, Gaptank Fm. Float from ant hill, unit 4 (34 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20588

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, tbl.(p.108), pl.7, f.9.

Pennsylvanian, Gaptank Fm. Unit 13 (55 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20589

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, pl.7, f.10.

Pennsylvanian, Gaptank Fm. Float from ant hill, unit 4 (34 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20590

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, tbl.(p.108), pl.7, f.11.

Late Pennsylvanian, Gaptank Fm. Calcarenite near middle of unit 10 (195 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20591

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, pl.7, f.12.

HYPOTYPE YPM 20592

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, pl.7, f.13.

HYPOTYPE YPM 20593

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.108, tbl.(p.108), pl.7, f.14.

Pennsylvanian, Gaptank Fm. Float from ant hill, unit 4 (34 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites* cf. *T. ohioensis* Thompson**

HYPOTYPE YPM 23521

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, tf.5(1, bed 1-13), pl.77, f.19.

Pennsylvanian, Horquilla Limestone. At 750 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 23522

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, tf.5(1, bed 1-15), pl.77, f.20.

HYPOTYPE YPM 23523

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.77, f.21.

Pennsylvanian, Horquilla Limestone. At 850 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites opimus* Dunbar and Newell**

HOLOTYPE YPM 17454

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.485, tbl.(p.486,#1), pl.10, f.11.

PARATYPE YPM 17455

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.485, tbl.(p.486,#3), pl.10, f.12.

PARATYPE YPM 17456

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.485, pl.10, f.13.

PARATYPE YPM 17457

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.485, tbl.(p.486,#2), pl.10, f.14.

Early Permian. Quebrada Quishuarani, NE of Munani, Peru. Collector: Newell, N.D.

***Triticites* cf. *T. oryziformis* Newell**

HYPOTYPE YPM 23666

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.13.

HYPOTYPE YPM 23667

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1170, pl.143, f.14.

Late Pennsylvanian, Gaptank Fm. Light gray weathering shale, upper 3 ft of unit 13 (18 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites* cf. *T. parvulus* Shellwien**

HYPOTYPE YPM 26337

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.4.

HYPOTYPE YPM 26338A

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.5.

HYPOTYPE YPM 26338B

Dunbar, C.O. and P. Misch. 1947. Bull. Geol. Soc. China, v.27, p.104, pl.1, f.6.

Early Permian. SE of Chiench'uan, northwestern Yunnan, China. Collector: Misch, P.

***Triticites patulus* Dunbar and Newell**

HOLOTYPE YPM 21031

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, tbl.(p.479,#1), pl.10, f.7.
PARATYPE YPM 21032A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, pl.10, f.3.

PARATYPE YPM 21032B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

PARATYPE YPM 21033A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, tbl.(p.479,#5), pl.10, f.9.

PARATYPE YPM 21033B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

PARATYPE YPM 21034A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, tbl.(p.479,#3), pl.10, f.6.

PARATYPE YPM 21034B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

PARATYPE YPM 21035

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, tbl.(p.479,#2), pl.10, f.8.

Early Permian. Yaurichambi, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 26348A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, pl.10, f.4.

PARATYPE YPM 26348B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

PARATYPE YPM 26349A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, pl.10, f.5.

PARATYPE YPM 26349B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

PARATYPE YPM 26350A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478, tbl.(p.479,#6), pl.10, f.10.

PARATYPE YPM 26350B, 26350C

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.478.

Permian. Chulpapampa, Bolivia. Collector: Berry, E.W. and Singewald, J.T., 1919.

See also *Fusulina peruana* (Meyer).

***Triticites piloncillosensis* Dunbar**

HOLOTYPE YPM 16553

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, pl.10, f.3.

PARATYPE YPM 16550

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#2), pl.10, f.1.

PARATYPE YPM 16551

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#3), pl.10, f.2.

PARATYPE YPM 16554

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#1), pl.10, f.4.

PARATYPE YPM 16555

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#4), pl.10, f.5.

PARATYPE YPM 16556

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#6), pl.10, f.7.

PARATYPE YPM 16557

Dunbar, C.O. 1944. Geol. Soc. Am. Spec. Pap. n.52, p.40, tbl.(p.40,#5), pl.10, f.6.

Late Pennsylvanian. Fusuline-crinoidal limestone at NE point of main hill of Los Piloncillos, NW of Las Delicias, Coahuila State, Mexico. Collector: King, R.E.

***Triticites pinguis* Dunbar and Skinner**

SYNTYPE YPM 15093A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (middle right), 15.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15093B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (lower right).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15093C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (lower center),14.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15094A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (upper center).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15094B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (middle left).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15094C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (lower left).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15094D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (center),13.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15094E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, pl.47, f.12 (upper right).

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15095

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, tbl.(p.621,#1), pl.47, f.16.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15095A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15097

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, tbl.(p.621,#4), pl.47, f.18.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

SYNTYPE YPM 15098

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, tbl.(p.621,#5), pl.47, f.19.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 4, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE YPM 15099

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620, tbl.(p.621,#2), pl.47, f.17.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE? YPM 15096

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.620.

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343.

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 4, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 20030

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.8, pl.36, f.11.

Late Pennsylvanian, Virgilian, Earp Fm. At 2 ft above base of unit A68, 430 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20038

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.8, tf.4(5-60), pl.36, f.10.[a]

Late Pennsylvanian, post-Virgilian, Earp Fm. At 45 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 20569

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109, tbl.(p.110), pl.6, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 3 (2 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20571

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109, tbl.(p.110), pl.6, f.3.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 9 (6 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20572

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.109, tbl.(p.110), pl.6, f.4.

Pennsylvanian, Neal Ranch Fm. Upper 3 ft of unit 1 (31 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21913

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.8, pl.36, f.7.[b]

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21915

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, tbl.8, tf.4(9-11), pl.36, f.8.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 45 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21916

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, pl.36, f.9.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A60, 340 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21917

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.343, pl.36, f.12.

Late Pennsylvanian, Virgilian, Earp Fm. At 2 ft above base of unit A68, 430 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E

SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Published locality (Loc. 5-60) is incorrect; the correct locality is Loc. 9-11.

[b]Incorrectly cited as YPM 21914 in tbl.8.

***Triticites plummeri* Dunbar and Condra**

SYNTYPE YPM 11130A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.5.

SYNTYPE YPM 11130B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.6.

SYNTYPE YPM 11130C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98.

SYNTYPE YPM 11130D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98.

Late Pennsylvanian, Cisco Grp, Graham Fm, Jacksboro Limestone Mbr. At 3.5 mi SE of Jacksboro, Jack Co., Texas, USA. Collector: Greger, D.K., 1905.

SYNTYPE YPM 20922A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.1.

SYNTYPE YPM 20922B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.2.

SYNTYPE YPM 20923

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.3.

SYNTYPE YPM 50050[a]

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.98, pl.6, f.4.

Late Pennsylvanian, Cisco Grp, Graham Fm, South Bend Shale Mbr. At 3 mi W of Graham, Young Co., Texas, USA. Collector: Plummer, F.B., 1922.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Triticites* cf. *T. plummeri* Dunbar and Condra**

HYPOTYPE YPM 20049

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.347, tbl.11, tf.4(5-68, upper), pl.36, f.6.

HYPOTYPE YPM 20052

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.347, tf.4(5-38, lower).

Late Pennsylvanian, Virgilian, Earp Fm. Upper 3 ft of unit A38, 15 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 23524

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.77, f.22.

HYPOTYPE YPM 23525

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, tf.5(1, bed 1-20), pl.77, f.23.

Pennsylvanian, Horquilla Limestone. At 1115 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites powwowensis* Dunbar and Skinner**

SYNTYPE YPM 13918A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#2), pl.48, f.6.

SYNTYPE YPM 13918B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#3), pl.48, f.12.

SYNTYPE YPM 13918C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#1), pl.48, f.7.

SYNTYPE YPM 13918D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, p.618, pl.48, f.8.

SYNTYPE YPM 13918E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#4), pl.48, f.5.

SYNTYPE YPM 13918F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617.

SYNTYPE YPM 15043A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (upper left),3.

SYNTYPE YPM 15043B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (middle left),2.

SYNTYPE YPM 15043C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (lower left), (possibly f.4?)

SYNTYPE YPM 15043D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (upper right).

SYNTYPE YPM 15043E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (upper middle right).

SYNTYPE YPM 15043F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1(lower middle right).

SYNTYPE YPM 15043G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.1 (lower right).

SYNTYPE YPM 15044A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#5), pl.48, f.9.

SYNTYPE YPM 15044B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, tbl.(p.618,#6), pl.48, f.10.

Early Permian, Hueco Limestone. Basal part of Hueco, just above Powwow conglomerate, saddle on spur N of entrance to Powwow Canyon [Powwow Ridge], El Paso Co., Texas, USA. Collector: King, P.B., 1934.

SYNTYPE YPM 20921A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.11 (upper left).

SYNTYPE YPM 20921B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617, pl.48, f.11 (lower right).

SYNTYPE YPM 20921C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

SYNTYPE? YPM 13918G, 13918H

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.617.[a]

Early Permian, Hueco Limestone. Basal part of Hueco, just above Powwow conglomerate, saddle on spur N of entrance to Powwow Canyon [Powwow Ridge], El Paso Co., Texas, USA. Collector: King, P.B., 1934.

HYPOTYPE YPM 22582

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, tbl.26, pl.25, f.1.

HYPOTYPE YPM 22583

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, tbl.26, pl.25, f.2.

HYPOTYPE YPM 22584

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, tbl.26, tf.3, pl.25, f.3.

HYPOTYPE YPM 22585

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, tbl.26, pl.25, f.4.

HYPOTYPE YPM 22586

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, pl.25, f.5.

HYPOTYPE YPM 22587

Williams, T.E. 1963. Bull. Peabody Mus. Nat. Hist. n.18, p.76, pl.25, f.6.

Early Permian, Wolfcampian, Hueco Grp, Hueco Canyon Fm, Powwow Mbr. Float, saddle on E-W ridge on N side of Powwow Canyon, and 0.9 mi ENE of Powwow Tank, and 0.4 mi WNW of hill 5460, central Hueco Mountains, Helms West Well 7.5 Quad., El Paso Co., Texas, USA. Collector: Williams, T.E., 1959 to 1961.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Triticites primarius* Burma**

HYPOTYPE YPM 20580

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, tbl.(p.111), pl.7, f.1.

Late Pennsylvanian, Gaptank Fm. Unit 20 (45 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20581

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, tbl.(p.111), pl.7, f.2.

HYPOTYPE YPM 20582

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, tbl.(p.111), pl.7, f.3.

Pennsylvanian, Gaptank Fm. Unit 6 (15 ft thick), section 12, SW face of Leonard Mountain, beginning from a gully at the foot of the escarpment due S of BM 5860 up to the top of the mountain, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20583

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, pl.7, f.4.

Late Pennsylvanian, Gaptank Fm. Light gray weathering shale, upper 3 ft of unit 13 (18 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20584

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, pl.7, f.5.

Late Pennsylvanian, Gaptank Fm. Unit 20 (45 ft thick), section 40, N along Allison-Moore boundary fence, 0.7 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20585

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, tbl.(p.111), pl.7, f.6.

HYPOTYPE YPM 20586

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.111, pl.7, f.8.

Late Pennsylvanian, Gaptank Fm. Light gray weathering shale, upper 3 ft of unit 13 (18 ft thick), section 30, 2.9 mi N75W of the Montgomery Ranch house, NW across low escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

***Triticites pygmaeus* (Dunbar and Condra)**

HYPOTYPE YPM 15101A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (upper left).

HYPOTYPE YPM 15101B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (middle left),14.

HYPOTYPE YPM 15101C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (lower left).

HYPOTYPE YPM 15101D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (upper center),16.

HYPOTYPE YPM 15101E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (lower center).

HYPOTYPE YPM 15101F

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (middle right),15.

HYPOTYPE YPM 15101G

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.13 (lower right).

HYPOTYPE YPM 15102A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.19.

HYPOTYPE YPM 15102B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.20.

HYPOTYPE YPM 15102C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#4), pl.48, f.21.

HYPOTYPE YPM 15102D, 15102E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614.

HYPOTYPE YPM 15103A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.22.

HYPOTYPE YPM 15103B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, pl.48, f.23.

HYPOTYPE YPM 15103C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#3), pl.48, f.24.

HYPOTYPE YPM 15103D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#5), pl.48, f.25.

HYPOTYPE YPM 15103E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.614, tbl.(p.614,#6), pl.48, f.26.

Late Pennsylvanian, Gaptank Fm. Just below the basal conglomerate of the Leonard [Hess Conglomerate], 2 ⅛ mi W of Gap Tank, W of Iron Mountain, section 14, Pecos Co., Texas, USA. Collector: King, R.E.

See also *Triticites cullomensis pygmaeus* Dunbar and Condra.

***Triticites rhodesi* Needham**

HYPOTYPE YPM 21908

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.340, tbl.5, pl.36, f.1.

HYPOTYPE YPM 21909

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.340, tbl.5, tf.4(9-10), pl.36, f.2.

HYPOTYPE YPM 21910

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.340, tbl.5, pl.36, f.3.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 5 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Triticites secalicus* (Say)**

HYPOTYPE YPM 11066A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.1.

HYPOTYPE YPM 11066B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.4.

Late Pennsylvanian, Oread Limestone, Plattsmouth Mbr. Zone F of Oread, 0.25 mi E of Snyderville, SW sec35T11SR18E, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11066C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.7.

HYPOTYPE YPM 11066D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.8, f.6.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.532, pl.42, f.3.

Late Pennsylvanian, Plattsmouth Limestone. At 0.5 mi E of Snyderville, NE sec24T59NR36W, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11067A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.5.

HYPOTYPE YPM 11067B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.6.

Late Pennsylvanian, Plattsmouth Limestone. Old Swede Quarry, W of Nehawka, Avoca Quad., NE sec13T10NR12E, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11075A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.11, f.7.

HYPOTYPE YPM 11075B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104.

Late Pennsylvanian, Oread Limestone. Upper Oread, 0.25 mi NE of Amazonia, NW sec30T59NR35W, Andrew Co., Missouri, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11108A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.2.

HYPOTYPE YPM 11108B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.104, pl.7, f.3.

Late Pennsylvanian, Oread Limestone, Plattsmouth Mbr. Zone G of Oread, Snyderville, SW sec35T11SR18E, Cass Co., Nebraska, USA. Collector: Condra, G.E. and others.

***Triticites southensis* Ross and Tyrrell**

HOLOTYPE YPM 23549

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, tbl.3, tf.5(1, bed 1-27, left), pl.78, f.16.

PARATYPE YPM 23550

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, tbl.3, tf.5(1, bed 1-27, right), pl.78, f.17.

PARATYPE YPM 23551

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.631, pl.78, f.18.

Pennsylvanian, Earp Fm, lower member. At 365 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites* sp. A**

HYPOTYPE YPM 20054B

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.348, tbl.13, tf.4(5-40), pl.38, f.13.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A40, 60 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21120

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1752, pl.4, f.1.

HYPOTYPE YPM 21121A

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1752, pl.4, f.2a

Permian. About 300 ft below top of Paleozoic limestone section at the S end of Sierra Huchita Hueca, 7 mi. NE of Bavispe, Mexico. Collector: Imlay, R.W.

HYPOTYPE YPM 23463

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.76, f.1.

HYPOTYPE YPM 23464

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.632, pl.76, f.2.

Pennsylvanian, Horquilla Limestone. At 765 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 24207

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.3.

HYPOTYPE YPM 24208

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, tf.7(bed C), pl.144, f.1.

HYPOTYPE YPM 24209

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1171, pl.144, f.2.

Late Pennsylvanian, Gaptank Fm. Medium gray to light brown weathering limestone, fine-grained organic fragmental and calcarenite in part, unit 15 (40 ft thick), section 43, beginning 1.5 mi SSW of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 50043

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.348, tf.4(5-38).

Late Pennsylvanian, Virgilian, Earp Fm. Upper 3 ft of unit A38, 15 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Triticites* sp. B**

HYPOTYPE YPM 21121B

Dunbar, C.O. 1939. Bull. Geol. Soc. Am. v.50, p.1752, pl.4, f.2b

Permian. About 300 ft below top of Paleozoic limestone section at the S end of Sierra Huchita Hueca, 7 mi. NE of Bavispe, Mexico. Collector: Imlay, R.W.

HYPOTYPE YPM 21966

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.348, tbl.14, pl.35, f.22.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A46, 170 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn

Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21967

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.348, tbl.14, pl.35, f.23.

HYPOTYPE YPM 21968

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.348, tbl.14, tf.4(5-4B), pl.35, f.24.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A48, 200 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 23465

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.76, f.3.

HYPOTYPE YPM 23466

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.76, f.4.

HYPOTYPE YPM 23467

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.633, pl.76, f.5.

Pennsylvanian, Horquilla Limestone. At 870 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Triticites subventricosus* Dunbar and Skinner**

SYNTYPE YPM 15108

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.19.

SYNTYPE YPM 15109

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.20.

SYNTYPE YPM 15109A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619.

SYNTYPE YPM 15110A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.21.

SYNTYPE YPM 15110B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.23.

SYNTYPE YPM 15111[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.22.

SYNTYPE YPM 15112A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.15 (upper left),18.

SYNTYPE YPM 15112B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.15 (lower left).

SYNTYPE YPM 15112C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.15 (upper right),16.

SYNTYPE YPM 15112D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619, pl.49, f.15 (lower right),17.

SYNTYPE? YPM 25277

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.619.[b]

Early Permian, Wolfcampian, Wolfcamp Fm. Bed 4 of P.B. King section, hills N of Wolf Camp, Brewster Co., Texas, USA. Collector: Schuchert, C.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

[b]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Triticites titicacaensis* Dunbar and Newell**

HOLOTYPE YPM 21023

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.479, tbl.(p.480,#1), pl.11, f.1,2.

PARATYPE YPM 21024

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.479, tbl.(p.480,#4), pl.11, f.5.

PARATYPE YPM 21025

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.479, tbl.(p.480,#3), pl.11, f.4.

Early Permian. Yaurichambi, Cochabamba, Bolivia. Collector: Kozlowski, R.

PARATYPE YPM 21026A

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.479, pl.11, f.3.

PARATYPE YPM 21026B

Dunbar, C.O. and N.D. Newell. 1946. Am. J. Sci. v.244, p.479, tbl.(p.480,#5), pl.11, f.6.

Early Permian. Apillapampa, Cochabamba, Bolivia. Collector: Kozlowski, R.

***Triticites tumidus* Skinner**

HYPOTYPE YPM 20045

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.341, tbl.6, tf.4(5-70a), pl.37, f.20.[a]

Late Pennsylvanian, Virgilian, Earp Fm. At 46 ft above base of unit A70, 560 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

[a]Incorrectly cited as YPM 20095.

***Triticites turgidus* Dunbar and Henbest**

HYPOTYPE YPM 23655

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.27,33.

HYPOTYPE YPM 23657

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.28.

Late Pennsylvanian, Gaptank Fm. Unit 6 (15 ft thick), section 36, measured about 3/8 mi W of the ranch road that leads to the high pasture on the Moore Ranch, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23659

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.21.

HYPOTYPE YPM 23660

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.23.

HYPOTYPE YPM 23661

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.22.

HYPOTYPE YPM 23662

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.25.

HYPOTYPE YPM 23663

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.26.

Late Pennsylvanian, Gaptank Fm. Light gray to white limestone, lower part of unit 9 (43 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23664

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.30,34.

Late Pennsylvanian, Gaptank Fm. Light gray to white limestone, upper part of unit 9 (43 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 23665

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.31.

HYPOTYPE YPM 24248

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.24.

Late Pennsylvanian, Gaptank Fm. Light gray to white limestone, lower part of unit 9 (43 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 24249

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.29.

Late Pennsylvanian, Gaptank Fm. Light gray to white limestone, upper part of unit 9 (43 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 24250

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1173, pl.145, f.32.

Late Pennsylvanian, Gaptank Fm. Light gray to white

limestone, lower part of unit 9 (43 ft thick), section 37, starting 50 yd W of the Moore Ranch Road, and about 2 mi W of Gap Tank, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Triticites uddeni* Dunbar and Skinner**

SYNTYPE YPM 15087A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.1 (uppermost),4.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15087B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.1 (middle left).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15087C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.1 (lower left),2.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15087D

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.1 (middle right),3.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15087E

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.1 (lower right).

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15088A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, tbl.(p.616,#4), pl.47, f.5.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15088B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, tbl.(p.616,#2), pl.47, f.7.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15088C

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, tbl.(p.616,#5), pl.47, f.11.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15090A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.9.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15090B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, tbl.(p.616,#3), pl.47, f.10.

LECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15091A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, tbl.(p.616,#1), pl.47, f.6.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE YPM 15091B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616, pl.47, f.8.

PARALECTOTYPE. Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

SYNTYPE? YPM 15092

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.616.[a]

PARALECTOTYPE? Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 20605

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112, tbl.(p.112), pl.9, f.1.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (5 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20606

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112, tbl.(p.112), pl.9, f.2.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 9 (6 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20607

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112, tbl.(p.112), pl.9, f.3.

Pennsylvanian, Neal Ranch Fm. Upper 3 ft of unit 1 (31 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20608

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112, tbl.(p.112), pl.9, f.4.

HYPOTYPE YPM 20609

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.112, pl.9, f.5.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 26 (5 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

[a]This slide is marked as a cotype [syntype], although it was not cited in the original description.

***Triticites ventricosus* (Meek and Hayden)**

HYPOTYPE YPM 11001A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.3.

HYPOTYPE YPM 11001B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.6.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.534, pl.42, f.1.

Dunbar, C.O. 1940. Foraminifera, p.145, pl.10, f.17.

Dunbar, C.O. 1948. Foraminifera, p.157, pl.10, f.17.

HYPOTYPE YPM 11001C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84.

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.134, pl.10, f.18.

Dunbar, C.O. 1940. Foraminifera, p.145, pl.10, f.18.

Dunbar, C.O. 1948. Foraminifera, p.157, pl.10, f.18.

Pennsylvanian, Elmdale Fm. Basal Elmdale, Lincoln Co., Kansas, USA. Collector: Meek, F.B., 9/6/1875.

HYPOTYPE YPM 11001D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84.

Late Pennsylvanian, Foraker Limestone, Hughes Creek Shale Mbr. Manhattan, Riley Co., Kansas, USA. Collector: Meek, F.B., 9/6/1875.

HYPOTYPE YPM 11021A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.4, f.3.

HYPOTYPE YPM 11021B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84.

Early Permian, Grenola Limestone, Neva Mbr. At 104 ft below Neva, Pawnee Co., Oklahoma, USA. Collector: Baker, R.F.

HYPOTYPE YPM 11028A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.44, f.4.

Dunbar, C.O. 1940. Foraminifera, p.145, pl.44, f.10.

Dunbar, C.O. 1948. Foraminifera, p.157, pl.44, f.10.

Early Permian, Council Grove Grp, Cottonwood Limestone. Lyon Co., Kansas, USA. Collector: Baker, R.F.

HYPOTYPE YPM 11037A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.1.

=*Triticites meeki* (Möller). HYPOTYPE. Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339.

HYPOTYPE YPM 11037B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.2.

Pennsylvanian, Elmdale Fm. Basal Elmdale, Manhattan, Riley Co., Kansas, USA.

HYPOTYPE YPM 11098A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.4.

HYPOTYPE YPM 11098B

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.3, f.5.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.533, pl.42, f.2.

Dunbar, C.O. 1940. Foraminifera, p.145, pl.10, f.16.

Dunbar, C.O. 1948. Foraminifera, p.157, pl.10, f.16.

HYPOTYPE YPM 11098C

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.1, f.2, pl.4, f.4.

Dunbar, C.O. 1933. Cushman Lab. Foram. Res. Spec. Pub. nos.4,5, p.135, pl.10, f.20.

Dunbar, C.O. 1940. Foraminifera, p.157, pl.10, f.20.

Dunbar, C.O. 1948. Foraminifera, p.145, pl.10, f.20.

=*Triticites meeki* (Möller). HYPOTYPE. Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.339.

HYPOTYPE YPM 11098D

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.4, f.5.

HYPOTYPE YPM 11098E–11098G

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84.

HYPOTYPE YPM 11098H

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.4, f.6.

HYPOTYPE YPM 11098I

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.11, f.8.

HYPOTYPE YPM 11098J

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.44, f.3.

Late Pennsylvanian, Foraker Limestone, Hughes Creek Shale Mbr. Eis Hill, 6.5 mi S of Humboldt, NW sec35T13NR12E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11098M

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.44, pl.1, f.4,6.

HYPOTYPE YPM 11098N

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.46, pl.2, f.10.

Late Pennsylvanian, Foraker Limestone, Hughes Creek Shale Mbr. Zone A of Hughes Creek, John Eis Hill, SW NE sec3T1NR13E, Richardson Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 11125A

Dunbar, C.O. 1933. Tex. Univ. Bull. n.3201, p.72, pl.6, f.3a,3c (left).

HYPOTYPE YPM 11125B, 11125C

Dunbar, C.O. 1933. Tex. Univ. Bull. n.3201, p.72.

Late Pennsylvanian, Elmdale Fm. Manhattan, Riley Co., Kansas, USA.

HYPOTYPE YPM 11311A

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, pl.1, f.1.

HYPOTYPE YPM 11311B

Dunbar, C.O. and J.W. Skinner. 1931. Am. J. Sci. v.222, pl.1, f.2.

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.534, pl.42, f.7.

Late Pennsylvanian, Stine Shale. Glade NW of Glen Rock, Nemaha Co., Nebraska, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 13905

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.46.

HYPOTYPE YPM 13905A

Dunbar, C.O. and L.G. Henbest. 1942. Bull. Ill. Geol. Surv. n.67, p.46, pl.2, f.11.

Early Permian, Naco Limestone. At 1 mi NW of Cave Creek Post Office, Cochise Co., Arizona, USA. Collector: Knight, J.B., 1934.

HYPOTYPE YPM 20594

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, tbl.(p.114), pl.8, f.1.

Late Pennsylvanian, Gaptank Fm. Unit 1 (2 ft thick), section 21, from junction of S-flowing gully and Geologist's Canyon, N to basal conglomerate of Lenox Hills, Wolf Camp Hills, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20595

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, pl.8, f.2.

HYPOTYPE YPM 20598

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, pl.8, f.5.

HYPOTYPE YPM 20599

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, tbl.(p.114), pl.8, f.6.

Pennsylvanian, Neal Ranch Fm. Upper 3 ft of unit 1 (31 ft thick), section 22, from N-NE bend in Geologist's Canyon, NW up W side of the creek to a windmill one-third of the way up the Glass Mountains escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 20601

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, tbl.(p.114), pl.8, f.8.

HYPOTYPE YPM 20604

Ross, C.A. 1959. J. Wash. Acad. Sci. v.49, n.9, p.300, tf.2.

Ross, C.A. 1963. Geol. Soc. Am. Mem. n.88, p.113, tf.10, pl.8, f.10.

Early Permian, Wolfcampian, Neal Ranch Fm. Unit 1 (4.5 ft thick), section 19, 1 mi W of mouth of Geologist's Canyon, Wolf Camp Hills, continuing up the lower slope of the Leonard escarpment, Brewster Co., Texas, USA. Collector: Ross, C.A.

HYPOTYPE YPM 21140

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84.

HYPOTYPE YPM 21140A

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.1, f.1.

Late Pennsylvanian, Tarkio Limestone. Rapids of Mill Creek, 2 mi SW of Maple Hill, SE sec26T11SR12E, Wabaunsee Co., Kansas, USA. Collector: Condra, G.E. and others.

HYPOTYPE YPM 50039[a]

Dunbar, C.O. 1933. Tex. Univ. Bull. n.3201, p.72, pl.6, f.3b,3c (right).

Late Pennsylvanian, Elmdale Fm. Manhattan, Riley Co., Kansas, USA.

HYPOTYPE YPM 50051[a]

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.4, f.1.

Early Permian, Grenola Limestone, Neva Mbr. Bed 145 ft below Neva, sec04T22NR05E, Pawnee Co., Oklahoma, USA. Collector: Baker, R.F.

HYPOTYPE YPM 50052[a]

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, pl.4, f.2.

Late Pennsylvanian, Wabaunsee Grp. Lyon Co., Kansas, USA.

HYPOTYPE YPM 50053[a]

Dunbar, C.O. and G.E. Condra. 1927. Bull. Neb. Geol. Surv. ser.2, n.2, p.84, tf.3.

No locality information available.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Triticites ventricosus sacramentoensis* Needham**

HYPOTYPE YPM 20054A

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.346, tbl.10, tf.4(5-44), pl.35, f.21.

Late Pennsylvanian, post-Virgilian, Earp Fm. Unit A44, 150 ft above base of Earp, along 0.8-mi-long N to S measured section, from base up, starting near center of N section 23 at crest of mountain, and ending downslope at center of section 23, eastern Dunn Spring Mountain, E side of Chiricahua Mountains, E SIDE W sec23T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 21969

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.346, tbl.10.

Late Pennsylvanian, post-Virgilian, Earp Fm. At 45 ft above base of Earp, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Triticites victorioensis* Dunbar and Skinner**

SYNTYPE YPM 15209

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.622, tbl.(p.623,#3), pl.53, f.1.

SYNTYPE YPM 15210

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.622, pl.53, f.3.[a]

SYNTYPE YPM 15211

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.622, tbl.(p.623,#4), pl.53, f.5.[b]

SYNTYPE YPM 15212A

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.622, tbl.(p.623,#1), pl.53, f.2.

SYNTYPE YPM 15212B

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, p.622, tbl.(p.623,#2), pl.53, f.4.

Early Permian, Hueco Limestone. E slope, E of summit of Victorio Peak, Culberson Co., Texas, USA. Collector: King, R.E.

[a]The description for pl.53 is incorrect; f.3 is not YPM 15209, 15211, 15212.

[b]Not pl.53, f.1-4, as implied in the description for pl.53 (see *Triticites victoriensis*, YPM 15209, 15212A, 15210 and 15212B).

***Triticites whetstonensis* Ross and Tyrrell**

HOLOTYPE YPM 23545

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, tbl.3, tf.5(1, bed 1-23,1-24, left), pl.78, f.11.

Pennsylvanian, Earp Fm, lower member. At 63 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23539

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, tf.5(1, bed 1-25,1-26, left), pl.78, f.6.

PARATYPE YPM 23540

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, tbl.3, tf.5(1, bed 1-25,1-26, right), pl.78, f.13.

PARATYPE YPM 23541

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.15.

PARATYPE YPM 23542

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.7.

PARATYPE YPM 23543

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.8.

Pennsylvanian, Earp Fm, lower member. At 81 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

PARATYPE YPM 23544

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.9.

PARATYPE YPM 23546

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.12.

PARATYPE YPM 23547

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, tf.5(1, bed 1-23,1-24, right), pl.78, f.10.

PARATYPE YPM 23548

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.630, pl.78, f.14.

Pennsylvanian, Earp Fm, lower member. At 63 ft above base of Earp, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

***Trochammina depressa* Lozo**

HYPOTYPE YPM 20454

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.74, pl.6, f.3a-3c.

HYPOTYPE YPM 20455

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.74, pl.6, f.4a-4c.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 66-77 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

***Trochammina gatesensis* Stelck and Wall**

HYPOTYPE YPM 20456

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.74, pl.6, f.7a-7c.

Early Cretaceous, Shell Creek Shale. At 6-10 ft above base of unit 3, section 32, near Clifton, E of old US Hwy 85, SW sec18T43NR60W, Weston Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20457

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.74, pl.6, f.6a-6c.

Early Cretaceous, Shell Creek Shale. Unit 11, 12.0 ft, section 5, SW flank of Lucerne Anticline, E of Big Horn River, SW sec16T43NR94W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

***Trochammina umiatensis* Tappan**

HYPOTYPE YPM 20453

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.75, pl.6, f.5a-5c.

Early Cretaceous, Shell Creek Shale. At 14-24 ft above base of unit 14, section 20, NW of Greybull, N sec14T53NR94W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 50059

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.75.

Early Cretaceous, Shell Creek Shale. At 26-38 ft above base of unit 56, section 22, W of Gypsum Creek, 1 mi S of Montana line, W of road, E sec26T58NR96W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

undet. Fusulinacea

HYPOTYPE YPM 24372

Berry, W. 1933. Pan-Am. Geol. v.59, pl.22, f.2.

Permian. Chulpapampa, Bolivia. Collector: Berry, E.W. and Singewald, J.T., 1919.

***Verbeekina verbeeki* (Geinitz)**

HYPOTYPE YPM 14968A

Heim, A. and H. Hirschi. 1939. Eclogae Geol. Helv. v.32, n.1, p.12, pl.1, f.2.

Permian. Near Chiang Mia, Thailand. Collector: Heim, A.

***Verneuilina canadensis* Cushman**

HYPOTYPE YPM 20458

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.5, f.2.

HYPOTYPE YPM 20459

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.67, pl.5, f.1.

Early Cretaceous, Shell Creek Shale. At 0-20 ft above base of unit 13, section 5, SW flank of Lucerne Anticline, E of Big Horn River, SW sec16T43NR94W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

***Verneuilinoides hectori* (Nauss)**

HYPOTYPE YPM 20460

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.68, pl.5, f.4.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 88-99 ft above base of unit 12, section 21, W of old Cloverly Post Office, 2 mi S of school, SW sec15T54NR92W, Big Horn Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20461

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.68, pl.5, f.3.

Early Cretaceous, Shell Creek Shale. At 6-10 ft above base of unit 3, section 32, near Clifton, E of old US Hwy 85, SW sec18T43NR60W, Weston Co., Wyoming, USA. Collector: Eicher, D.L.

***Verneuilinoides kansasensis* Loeblich and Tappan**

HYPOTYPE YPM 20462

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.69, pl.5, f.6.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 16-28 ft above base of unit 20, section 4, NE flank of Lucerne anticline, E of Big Horn River, NW sec16T43NR94W, Hot Springs Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20463

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.69, pl.5, f.7.

Early Cretaceous, Thermopolis Shale. At 0.5 ft above bentonite, section 27, Dutton Basin, 1 mi E of uranium mine road, NE sec18T33NR89W, Fremont Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20464

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.69, pl.5, f.8.

Early Cretaceous, Thermopolis Shale, Thermopolis Upper Shale Mbr. At 31-51 ft above base of unit 10,

section 17, offset 3.5 mi E of NW sec22T38NR86W, Natrona Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20465

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.69, pl.5, f.9.

Early Cretaceous, Thermopolis Shale. At 0.5 ft above bentonite, section 27, Dutton Basin, 1 mi E of uranium mine road, NE sec18T33NR89W, Fremont Co., Wyoming, USA. Collector: Eicher, D.L.

HYPOTYPE YPM 20466

Eicher, D.L. 1960. Bull. Peabody Mus. Nat. Hist. n.15, p.69, pl.5, f.10.

Early Cretaceous, Skull Creek Shale. At 12-24 ft above base of unit 3, section 33, Fall River, 5 mi SE of Hot Springs, NE sec33T7NR6E, Fall River Co., South Dakota, USA. Collector: Eicher, D.L.

***Waeringella chiricahuensis* Sabins and Ross**

HOLOTYPE YPM 21894

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.361, tbl.27, pl.37, f.8.

HYPOTYPE YPM 21895

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.361, tbl.27, pl.37, f.9.

HYPOTYPE YPM 21896

Sabins, F.F., Jr. and C.A. Ross. 1963. J. Paleont. v.37, n.2, p.361, tbl.27, tf.4(9-7), pl.37, f.10.

Late Pennsylvanian, Virgilian, Horquilla Limestone. At 280 ft below top of Horquilla, 0.6-mi-long measured section from NNE to SSW up ridge to peak, from center S section 15 to near SW corner NW section 22, 2.25 mi NW of Portal, E side of Chiricahua Mountains, CENTER S sec15T17SR31E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

***Waeringella* sp.**

HYPOTYPE YPM 24201

Ross, C.A. 1965. J. Paleont. v.39, n.6, p.1174, pl.143, f.11,12.

Late Pennsylvanian, Gaptank Fm. Light pink weathering limestone, unit 7 (0-9 ft thick), section 36, measured about 3/8 mi W of the ranch road that leads to the high pasture on the Moore Ranch, Pecos Co., Texas, USA. Collector: Ross, C.A.

***Waeringella spiveyi* Thompson**

SYNTYPE YPM 17066

Thompson, M.L. 1942. Am. J. Sci. v.240, p.414.

Late Pennsylvanian, Deer Creek Limestone, Ervine Creek Mbr. N bank of the roadcut of Hwy 11, about 3.7 mi W of the river bridge at Pawhuska, SE sec2T25NR8E, Osage Co., Oklahoma, USA. Collector: Skinner, J.W.

***Wedekindellina cabezasensis* Ross and Sabins**

HOLOTYPE YPM 23345

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, tf.4(1, bed 10), pl.26, f.16.

PARATYPE YPM 23343

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.14.

PARATYPE YPM 23344

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.15.

PARATYPE YPM 23346

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.17.

PARATYPE YPM 23347

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.18.

Pennsylvanian, Horquilla Limestone. At 125 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Wedekindellina ellipsoides* Dunbar and Henbest**

HYPOTYPE YPM 23434

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(2, bed 2-4g), pl.75, f.1.

HYPOTYPE YPM 23435

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.75, f.2.

Pennsylvanian, Horquilla Limestone. At 365 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

***Wedekindellina euthysepta* (Henbest)**

HYPOTYPE YPM 23351

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.22.

HYPOTYPE YPM 23352

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.23.

Pennsylvanian, Horquilla Limestone. At 17 ft above base of unit A33, 550 ft above upper thrust fault, along 0.4-mi-long N to S measured section, starting from thrust fault near base of Horquilla at center of NE section 22, and ending 0.1 mi S of peak of hill 6082 just N of center of N N SE section 22, central Dunn Spring Mountain, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Sabins, F.F., 1954.

HYPOTYPE YPM 23353

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.21, f.36, pl.26, f.24.

HYPOTYPE YPM 23354

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, tf.4(9, bed 13), pl.26, f.25.

Pennsylvanian, Horquilla Limestone. At 325 ft above base of Horquilla, along measured section, from base up, starting at center NE corner of section 22, and ending at SW corner NE section 22 about 300 ft NE of summit of hill 6463, and 1.9 mi NNW of Portal, E side of Chiricahua Mountains, E sec22T15SR30E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/19/1962.

HYPOTYPE YPM 23439

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(1, bed 1-4), pl.75, f.6.[a]

Pennsylvanian, Horquilla Limestone. At 260 ft above base of Horquilla, 1.3-mi-long section measured westward along ridge from NW section 23 to NW section 22, S side of Dry Canyon, and about 3 mi E of Granite Peak, SE side of Whetstone Mountains, NW sec23T19SR19E, N sec22T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1956.

HYPOTYPE YPM 23440

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, pl.75, f.7.[b]

HYPOTYPE YPM 23441

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.627, tf.5(2, bed 2-2b), pl.75, f.8.

Pennsylvanian, Horquilla Limestone. At 250 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

[a]Published locality is incorrect; locality is 1-4, not 2-4.

[b]Locality given in plate description is incorrect; locality is 2-2b, not D-2b.

***Wedekindellina henbesti* (Skinner)**

HYPOTYPE YPM 22366

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.1.

HYPOTYPE YPM 23333

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.2.

HYPOTYPE YPM 23334

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.21, f.32, pl.26, f.3.

HYPOTYPE YPM 23335

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, tbl.10, pl.26, f.4.

HYPOTYPE YPM 23336A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.5.

HYPOTYPE YPM 23336B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.6.

HYPOTYPE YPM 23337A

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.7.

HYPOTYPE YPM 23337B

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.196, pl.26, f.8.

Pennsylvanian, Horquilla Limestone. At 485 ft above base of Horquilla, along 0.4-mi-long NNE to SSW measured section, continued downslope from center E SE section 19 to center N NE section 30, 0.8 mi W of E end of, and on S slope of, Blue Mountain, E side of Chiricahua Mountains, W SE SE sec19T16SR31E, CENTER N N NE sec30T16SR31E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Wedekindellina henbesti*(?) (Skinner)**

HYPOTYPE YPM 26649

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.29.

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

HYPOTYPE YPM 26650

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.30.

HYPOTYPE YPM 26651

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.31.

HYPOTYPE YPM 26652

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.32.

HYPOTYPE YPM 26653

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.33.

HYPOTYPE YPM 26654

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.172, f.34.

Late Pennsylvanian, Horquilla Limestone. At 221 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Wedekindellina pseudomatura* Ross and Tyrrell**

HOLOTYPE YPM 23444

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.2, pl.75, f.11.

PARATYPE YPM 23445

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.2, tf.5(2, bed 2-4a), pl.75, f.12.

PARATYPE YPM 23446

Ross, C.A. and W.W. Tyrrell, Jr. 1965. J. Paleont. v.39, n.4, p.628, tbl.2, pl.75, f.13.

Pennsylvanian, Horquilla Limestone. At 305 ft above base of Horquilla, section measured westward along ridge, N side of Dry Canyon, and 2 mi NE of Granite Peak, south-central Whetstone Mountains, S SE sec9T19SR19E, Cochise Co., Arizona, USA. Collector: Tyrrell, W.W., Jr., 1955.

HYPOTYPE YPM 26613

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.32.

HYPOTYPE YPM 26614

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.33.

HYPOTYPE YPM 26615

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.34.

HYPOTYPE YPM 26616

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.35.

HYPOTYPE YPM 26617

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.36,37.

HYPOTYPE YPM 26618

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.171, f.38.

Late Pennsylvanian, Horquilla Limestone. At 68 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 7/2/1965.

***Wedekindellina* sp.**

HYPOTYPE YPM 26655

Ross, C.A. 1969. J. Paleont. v.43, n.6, p.1411, pl.173, f.17.

Pennsylvanian, Horquilla Limestone. At 491 ft above base of Horquilla, measured section in small outcrop along SW-NE-trending secondary road, 8.25 mi due N of Baylis, S slope of Gila Mountains, Graham Co., Arizona, USA. Collector: Ross, C.A., 6/30/1965.

***Wedekindellina* sp. A**

HYPOTYPE YPM 23348

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.26, f.19.

HYPOTYPE YPM 23349

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, pl.26, f.20.

Ross, C.A. and F.F. Sabins, Jr. 1965. J. Paleont. v.39, n.2, p.197, tbl.3, tf.4(1, bed 16), pl.26, f.21.

Pennsylvanian, Horquilla Limestone. At 380 ft above base of Horquilla, NE to SW measured section, N side of AZ Rt 186 (with top along road), small hill on SW side of Dos Cabezas Mountain, and 2.5 mi WNW of Dos Cabezas village, SE sec26T14SR26E, Cochise Co., Arizona, USA. Collector: Ross, C.A. and Sabins, F.F., 3/1962.

***Yabeina globosa* (Yabe)**

HYPOTYPE YPM 50021[a]

Dunbar, C.O. and J.W. Skinner. 1937. Tex. Univ. Bull. n.3701, pl.43, f.4.

Permian. Akasaka, Osaka, Japan.

[a]A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

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